

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031720\
 Data File : VN060555.D
 Acq On : 17 Mar 2020 14:41
 Operator : JC/MD
 Sample : L1948-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OILY-STONES

Quant Time: Mar 18 06:43:55 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	211719	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	355284	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	332638	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	150812	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	136880	50.39	ug/l	0.00
Spiked Amount			Recovery	=	100.78%	
35) Dibromofluoromethane	7.56	113	104426	63.32	ug/l	0.00
Spiked Amount			Recovery	=	126.64%	
50) Toluene-d8	10.08	98	438667	52.56	ug/l	0.00
Spiked Amount			Recovery	=	105.12%	
62) 4-Bromofluorobenzene	12.40	95	164896	52.12	ug/l	0.00
Spiked Amount			Recovery	=	104.24%	

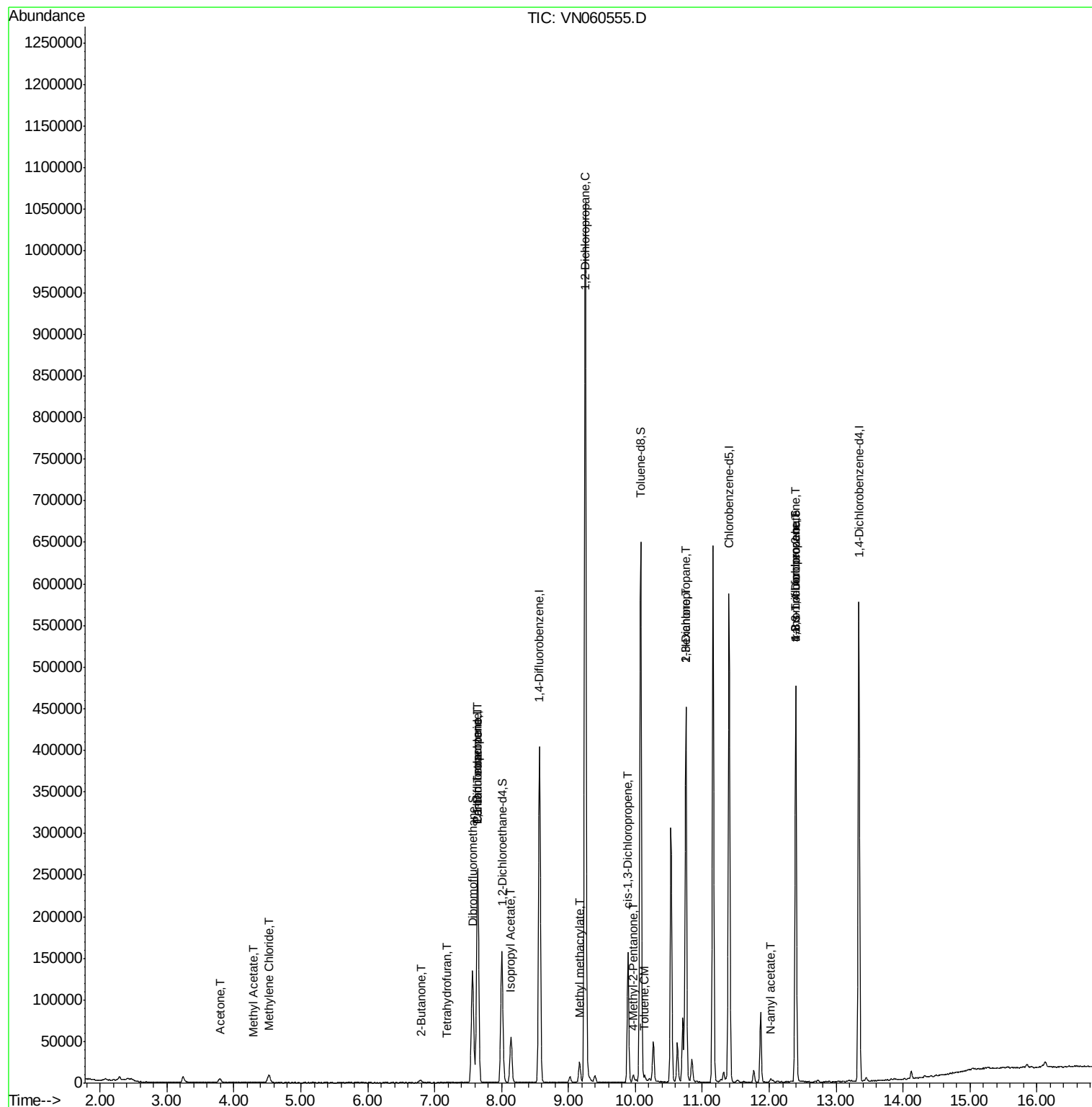
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	8992	10.251	ug/l	93
18) Methyl Acetate	4.28	43	775	0.265	ug/l #	52
20) Methylene Chloride	4.52	84	7177	2.979	ug/l	97
25) 2-Butanone	6.81	43	1899	1.340	ug/l #	49
29) Tetrahydrofuran	7.19	42	339	0.344	ug/l #	33
31) Cyclohexane	7.64	56	4321	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	16644	4.915	ug/l #	50
38) Carbon Tetrachloride	7.64	117	20434	6.198	ug/l #	16
43) Isopropyl Acetate	8.14	43	66613	11.868	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1355	0.526	ug/l #	44
48) Methyl methacrylate	9.16	41	3591	1.403	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	6429	2.020	ug/l	92
52) Toluene	10.14	92	3156	0.510	ug/l	91
54) cis-1,3-Dichloropropene	9.89	75	27341	6.333	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	4623	1.139	ug/l #	42
59) 2-Hexanone	10.75	43	68051	29.124	ug/l #	51
74) N-amyl acetate	12.02	43	3408	0.698	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	83248	25.159	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	83248	69.452	ug/l #	8
87) 1,3-Dichlorobenzene	13.36	146	61	Below Cal	#	25
88) 1,4-Dichlorobenzene	13.36	146	61	Below Cal	#	25
95) Naphthalene	15.13	128	389	Below Cal	#	69

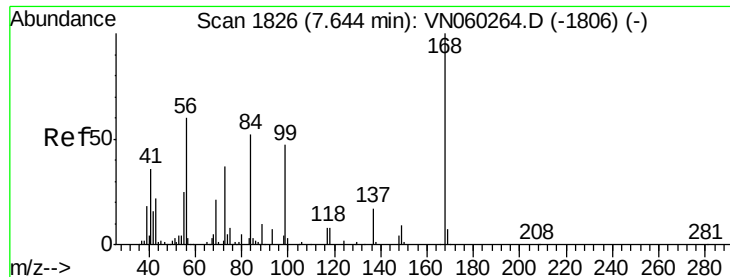
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Feb 27 13:52:50 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060555.D

Acq: 17 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

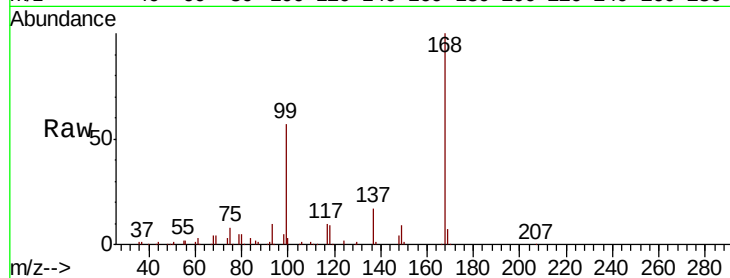
OILY-STONES

Tot Ion:168 Resp: 211719

Ion Ratio Lower Upper

168 100

99 57.4 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

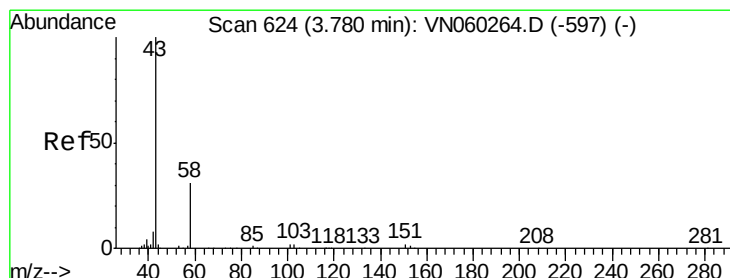
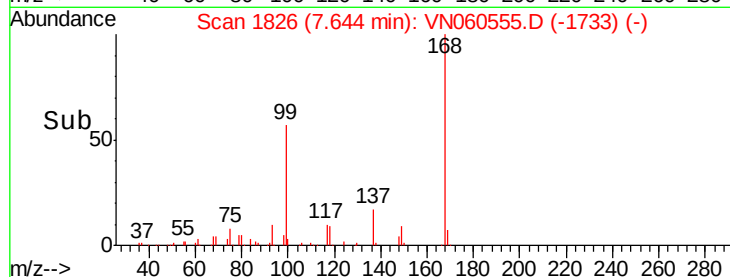
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 10.251 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN060555.D

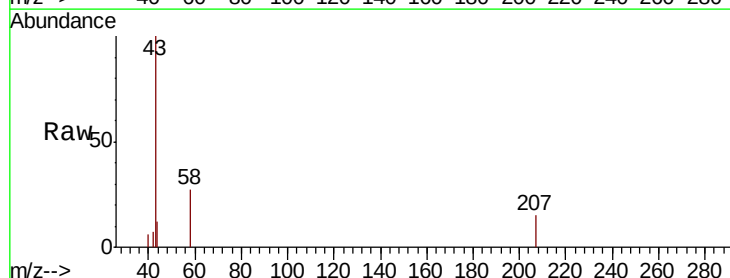
Acq: 17 Mar 2020 14:41

Tgt Ion: 43 Resp: 8992

Ion Ratio Lower Upper

43 100

58 26.7 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.79

3000

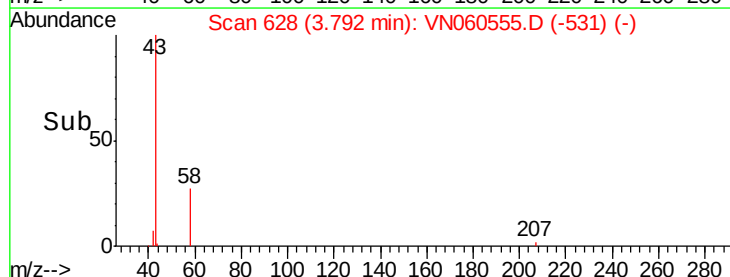
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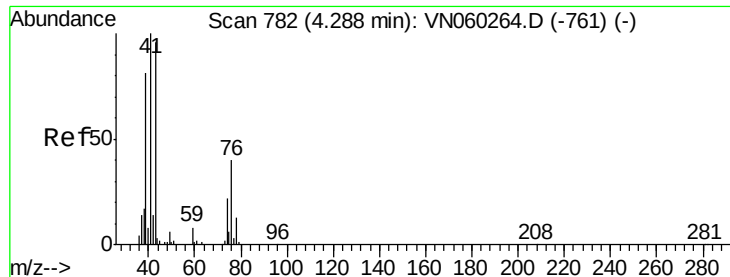
1000

0

3.70 3.80 3.90

Time-->

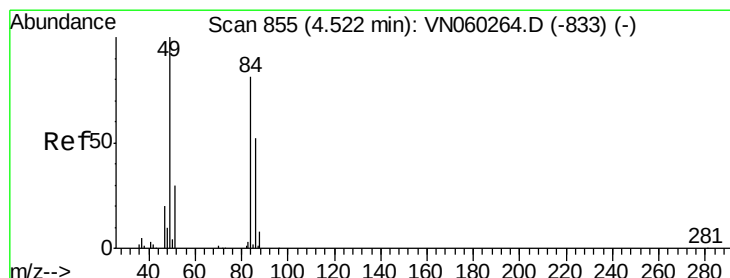
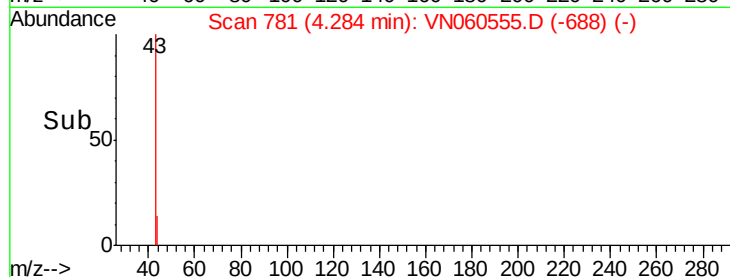
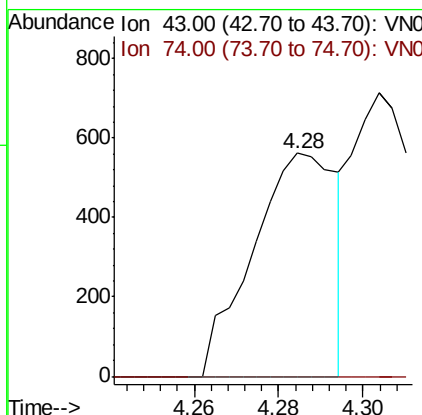
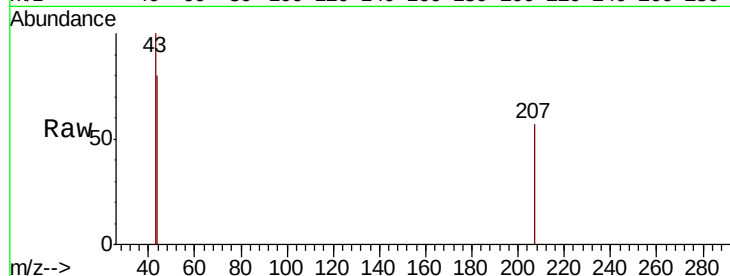




#18
Methyl Acetate
Concen: 0.265 ug/l
RT: 4.28 min Scan# 781
Delta R.T. -0.00 min
Lab File: VN060555.D
Acq: 17 Mar 2020 14:41

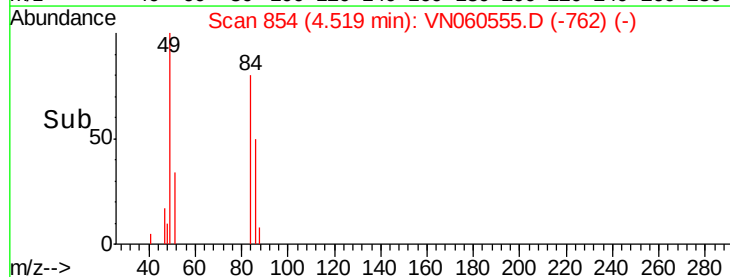
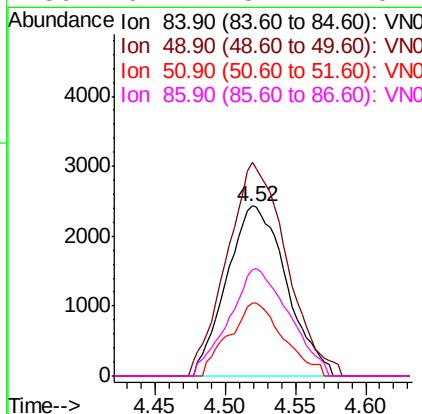
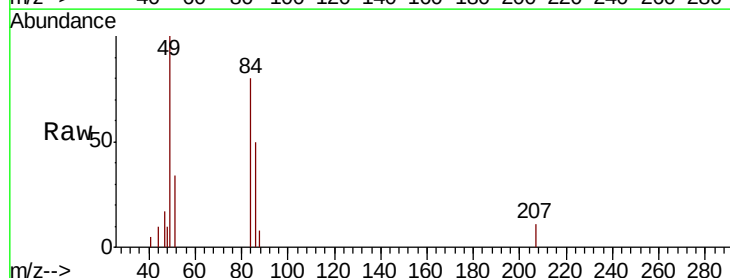
Instrument :
MSVOA_N
ClientSampleId :
OILY-STONES

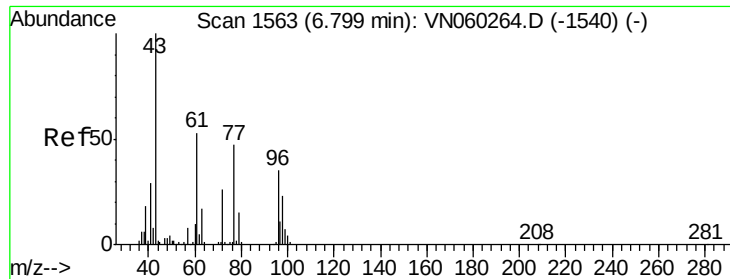
Tot Ion: 43 Resp: 775
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#



#20
Methylene Chloride
Concen: 2.979 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060555.D
Acq: 17 Mar 2020 14:41

Tgt Ion: 84 Resp: 7177
Ion Ratio Lower Upper
84 100
49 125.5 99.3 148.9
51 42.9 30.1 45.1
86 62.7 51.1 76.7

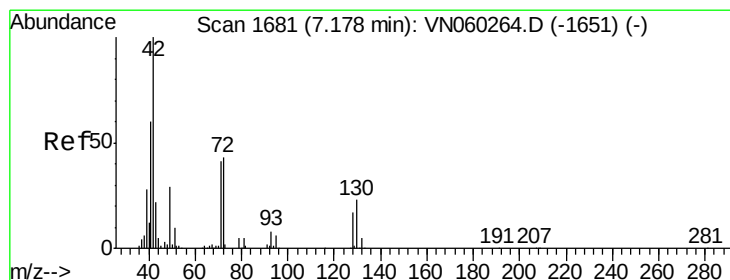
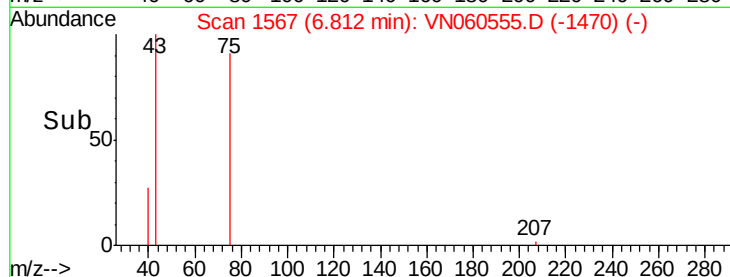
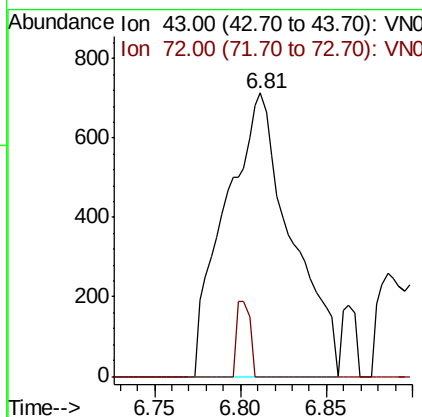
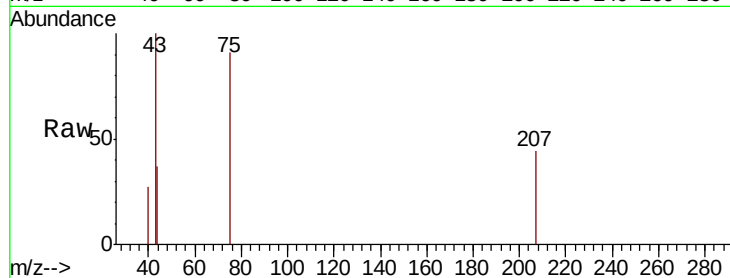




#25
2-Butanone
Concen: 1.340 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VN060555.D
Acq: 17 Mar 2020 14:41

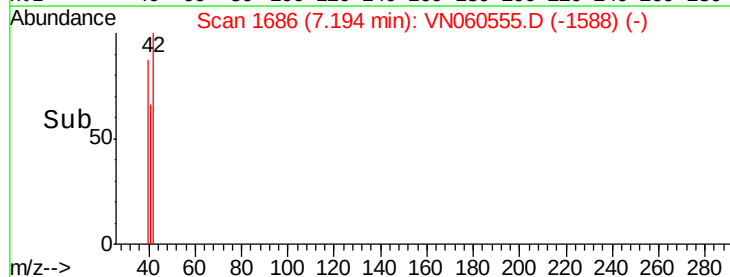
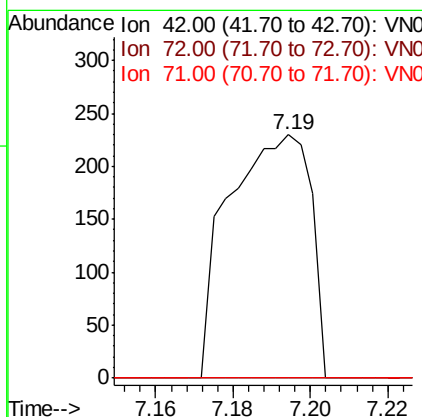
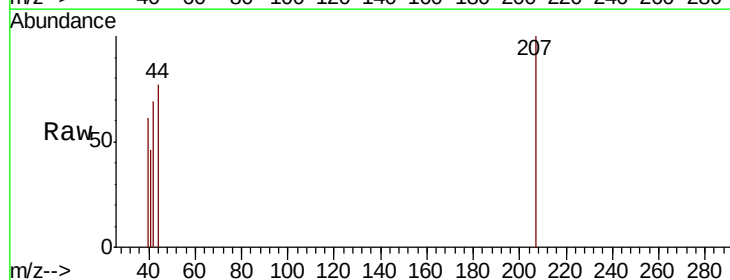
Instrument :
MSVOA_N
ClientSampleId :
OILY-STONES

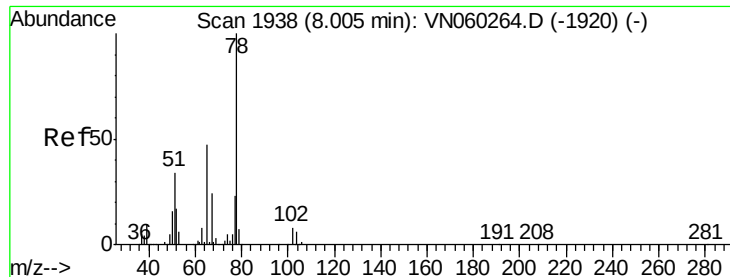
Tot Ion: 43 Resp: 1899
Ion Ratio Lower Upper
43 100
72 0.0 20.9 31.3#



#29
Tetrahydrofuran
Concen: 0.344 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.02 min
Lab File: VN060555.D
Acq: 17 Mar 2020 14:41

Tgt Ion: 42 Resp: 339
Ion Ratio Lower Upper
42 100
72 0.0 34.6 52.0#
71 0.0 32.9 49.3#

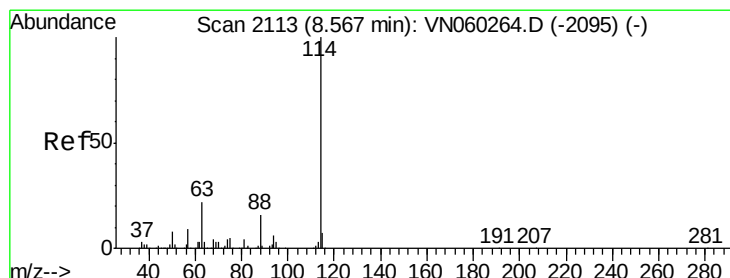
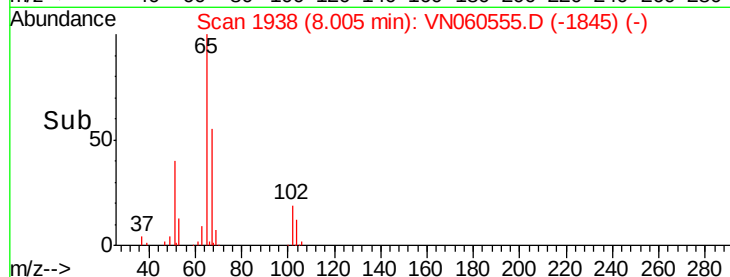
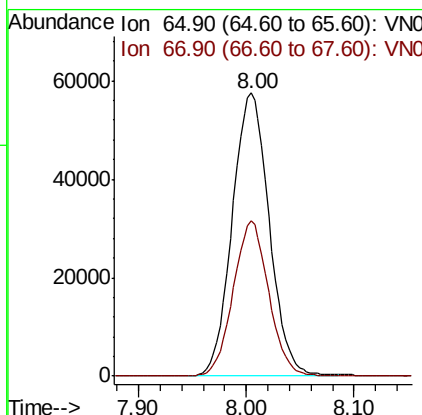
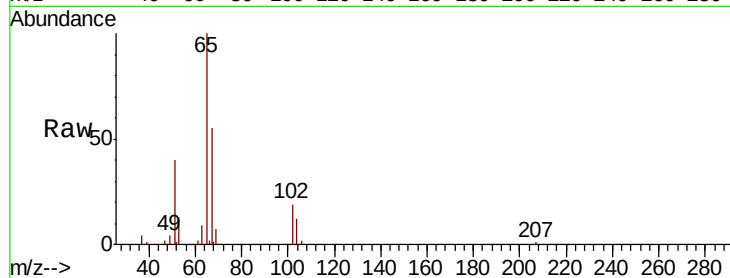




#33
 1,2-Dichloroethane-d4
 Concen: 50.390 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060555.D
 Acq: 17 Mar 2020 14:41

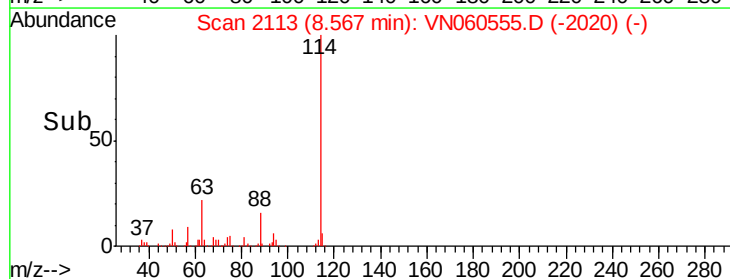
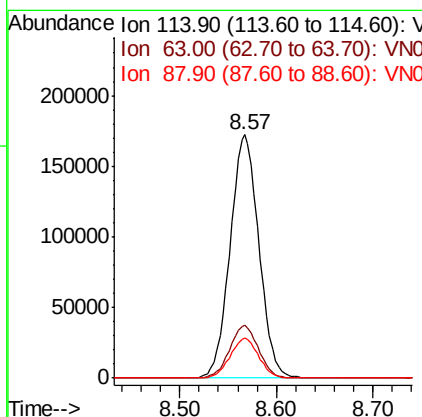
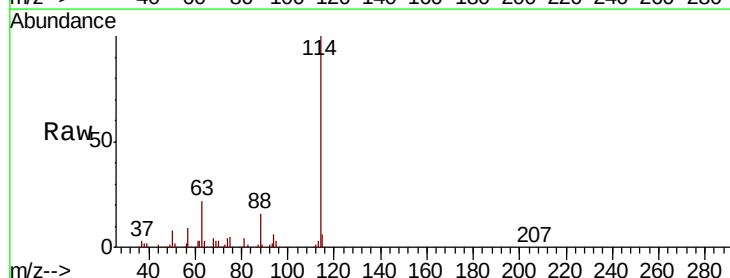
Instrument :
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 ClientSampleId :
 OILY-STONES

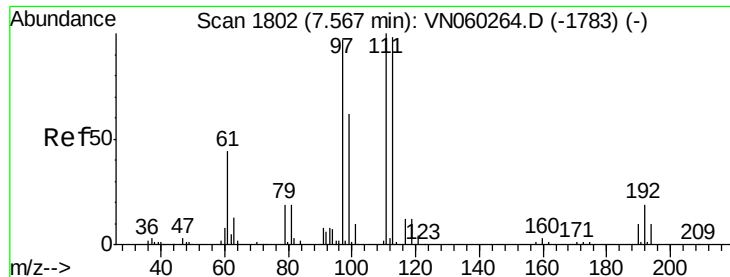
Tot Ion: 65 Resp: 136880
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060555.D
 Acq: 17 Mar 2020 14:41

Tgt Ion: 114 Resp: 355284
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 43.2
 88 16.4 0.0 31.6

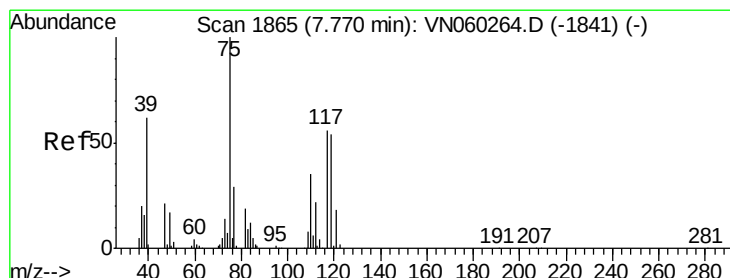
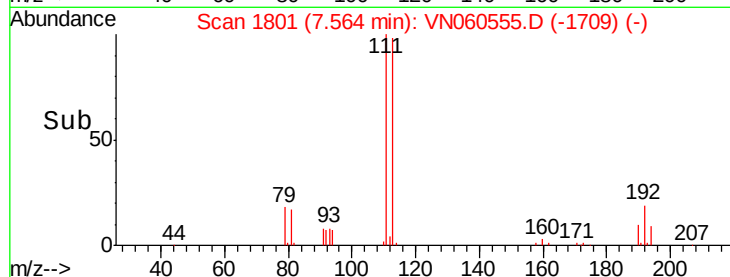
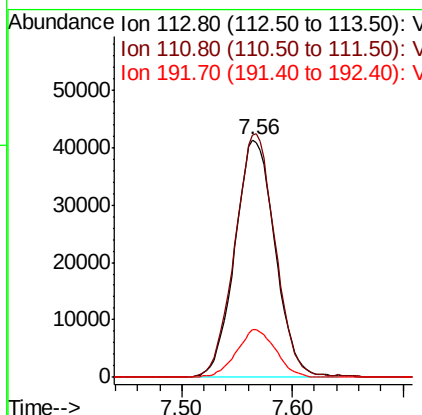
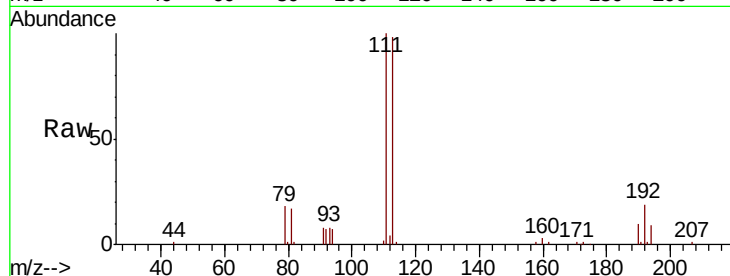




#35
 Dibromofluoromethane
 Concen: 63.323 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060555.D
 Acq: 17 Mar 2020 14:41

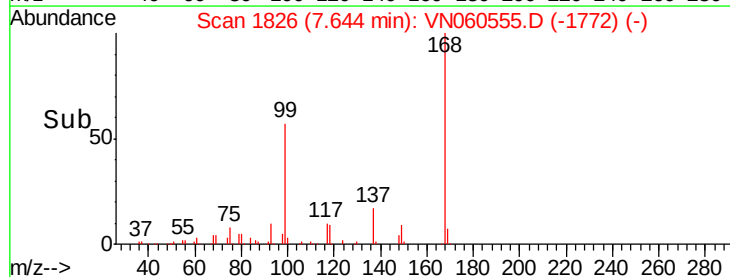
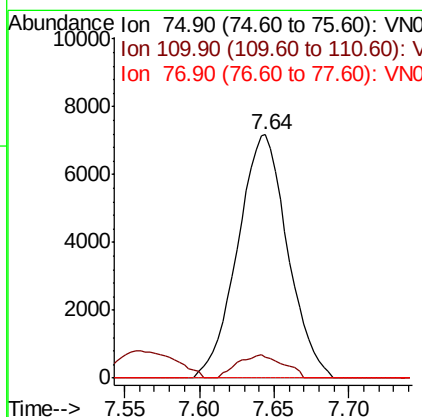
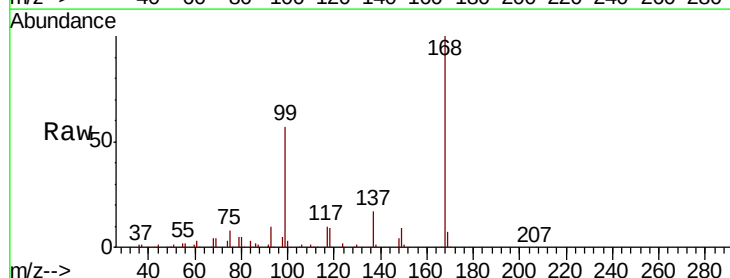
Instrument :
 MSVOA_N
 ClientSampled :
 OILY-STONES

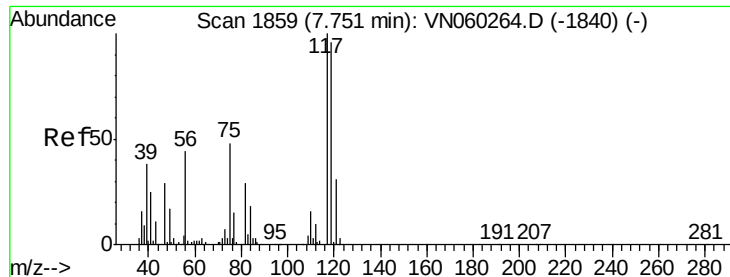
Tot Ion:113 Resp: 104426
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.4 123.6
 192 19.6 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 4.915 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060555.D
 Acq: 17 Mar 2020 14:41

Tgt Ion: 75 Resp: 16644
 Ion Ratio Lower Upper
 75 100
 110 8.7 17.3 52.0#
 77 0.0 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 6.198 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060555.D

Acq: 17 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

OILY-STONES

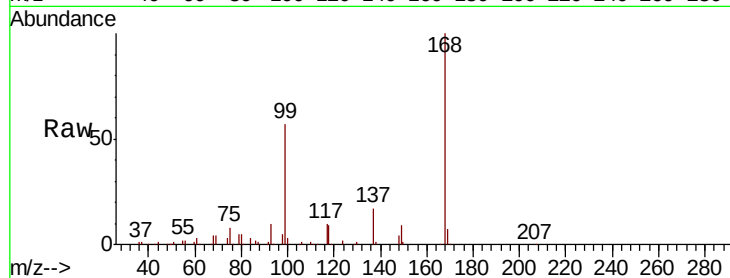
Tot Ion:117 Resp: 20434

Ion Ratio Lower Upper

117 100

119 4.8 76.7 115.1#

121 0.0 24.5 36.7#

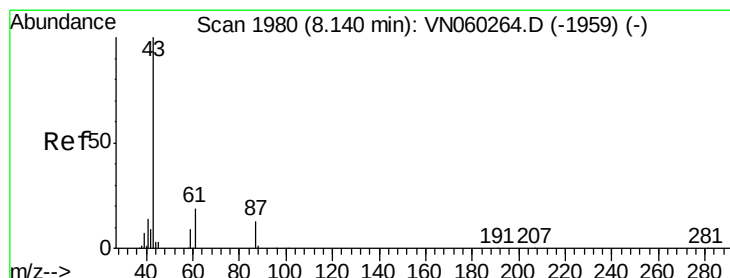
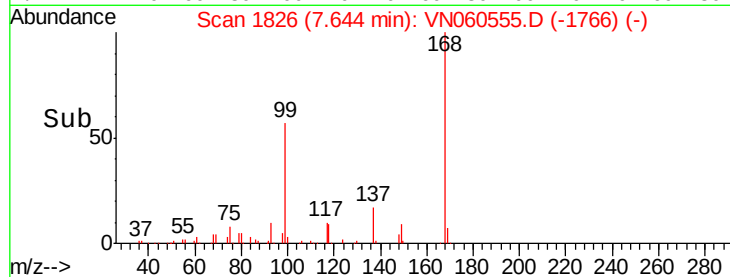
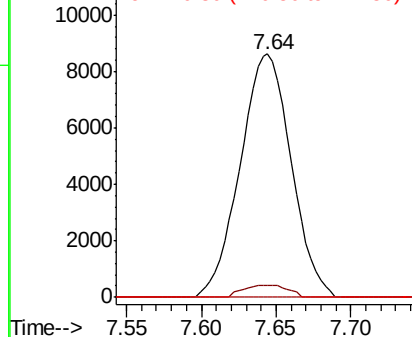


Abundance

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: 11.868 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060555.D

Acq: 17 Mar 2020 14:41

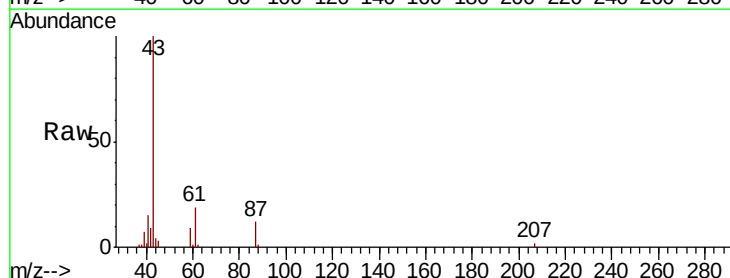
Tgt Ion: 43 Resp: 66613

Ion Ratio Lower Upper

43 100

61 19.1 20.9 31.3#

87 11.9 10.6 16.0

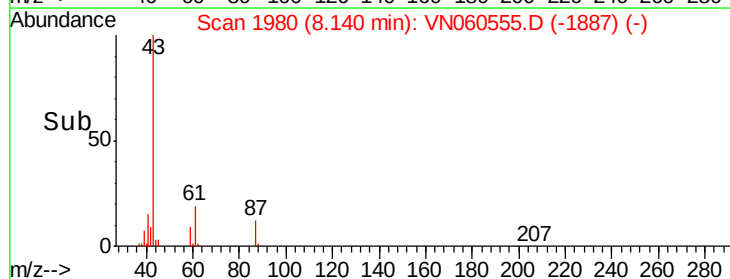
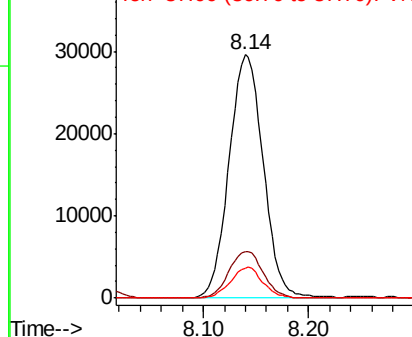


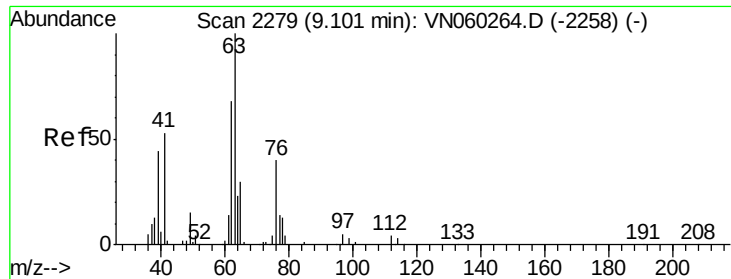
Abundance

Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.526 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060555.D

Acq: 17 Mar 2020 14:41

Instrument :

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ClientSampleId :

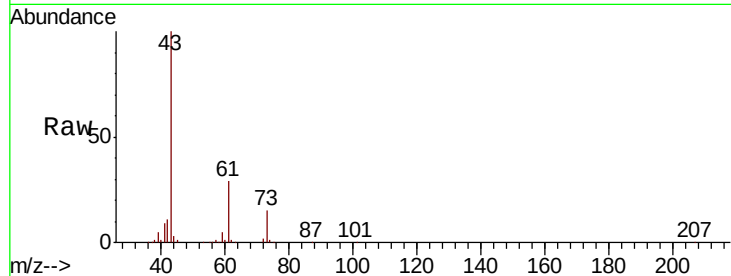
OILY-STONES

Tot Ion: 63 Resp: 1355

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.25

800

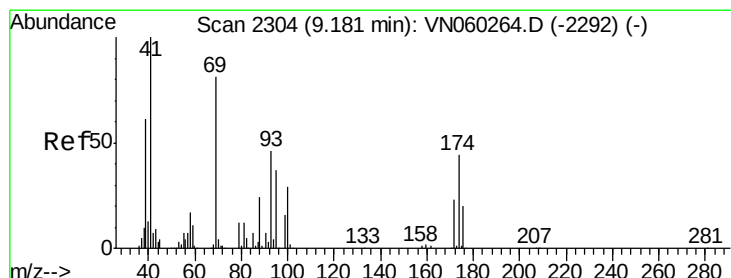
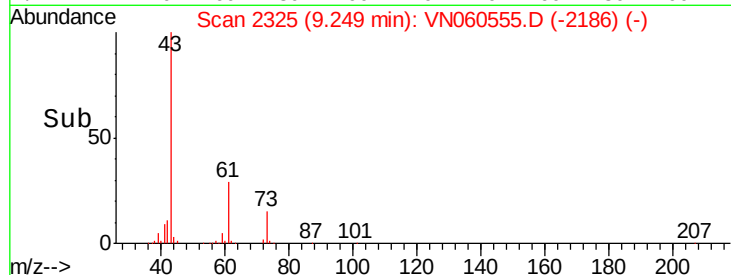
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.403 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060555.D

Acq: 17 Mar 2020 14:41

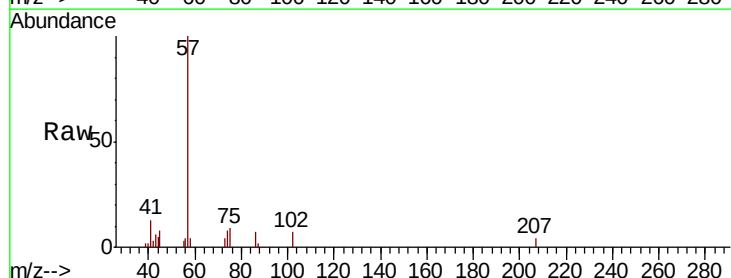
Tgt Ion: 41 Resp: 3591

Ion Ratio Lower Upper

41 100

69 0.0 66.7 100.1#

39 0.0 50.1 75.1#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

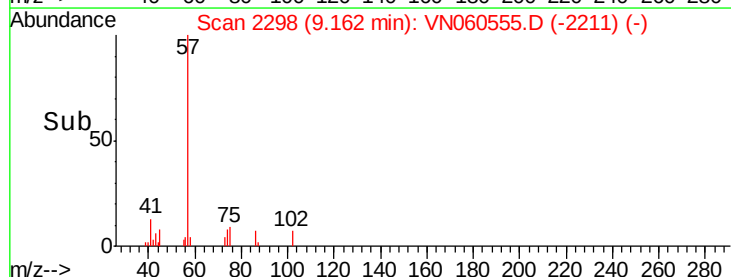
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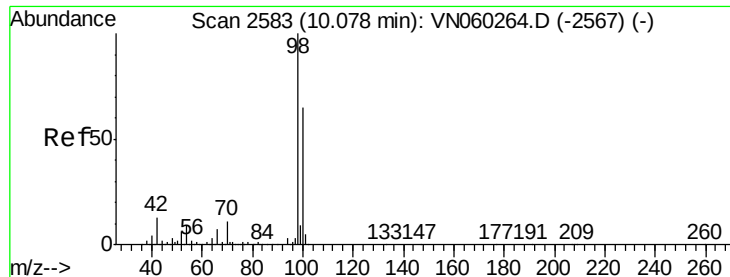
20000

10000

0

Time-->

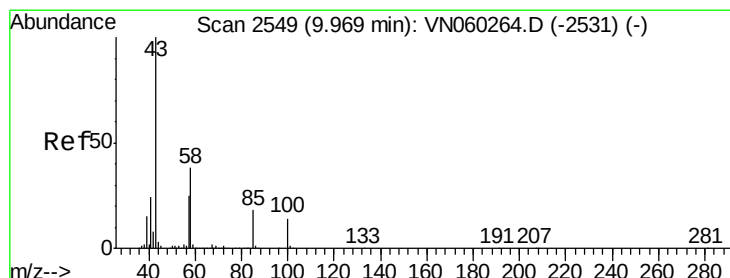
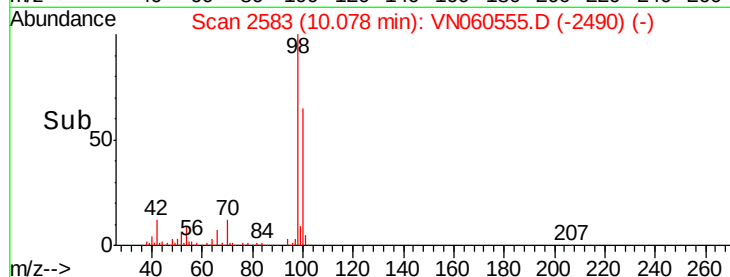
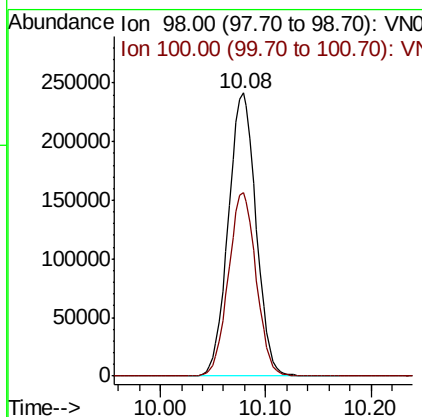
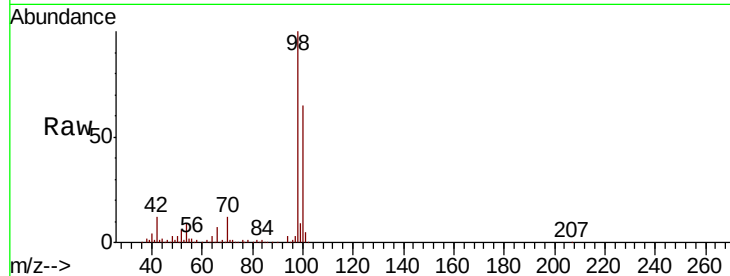




#50
Toluene-d8
Concen: 52.558 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060555.D
Acq: 17 Mar 2020 14:41

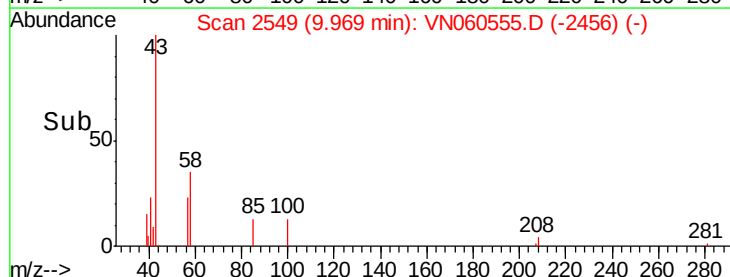
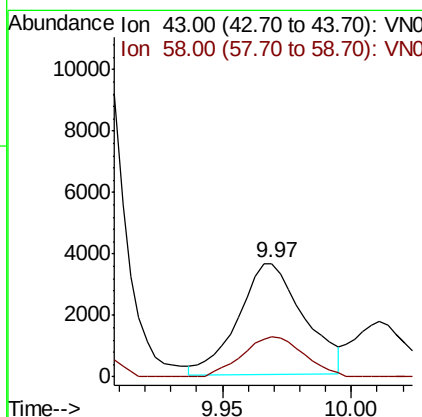
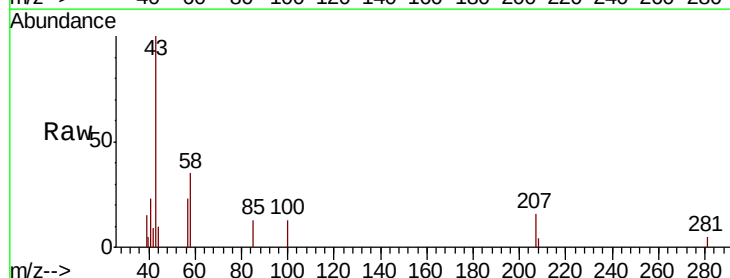
Instrument :
MSVOA_N
ClientSampled :
OILY-STONES

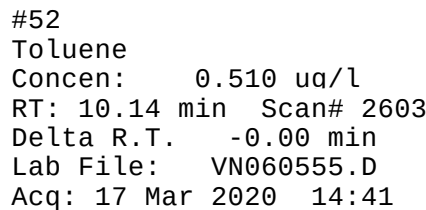
Tot Ion: 98 Resp: 438667
Ion Ratio Lower Upper
98 100
100 64.8 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 2.020 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. -0.00 min
Lab File: VN060555.D
Acq: 17 Mar 2020 14:41

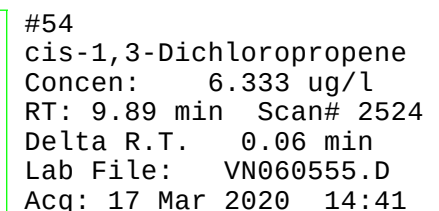
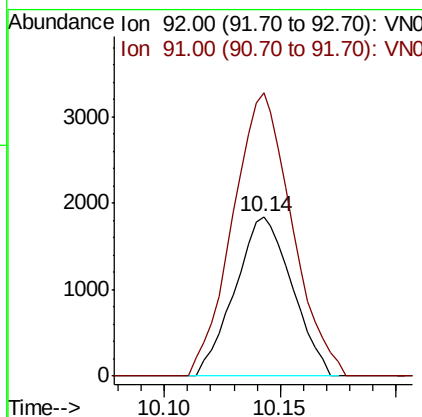
Tgt Ion: 43 Resp: 6429
Ion Ratio Lower Upper
43 100
58 34.0 30.9 46.3



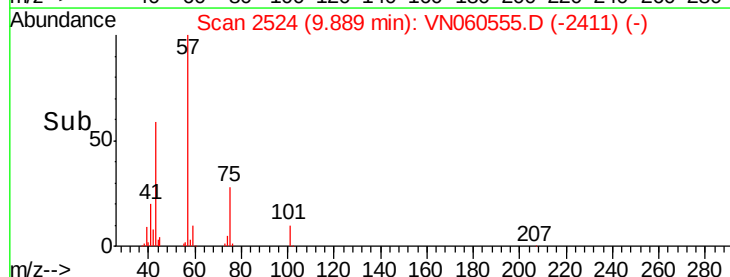
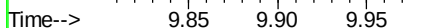
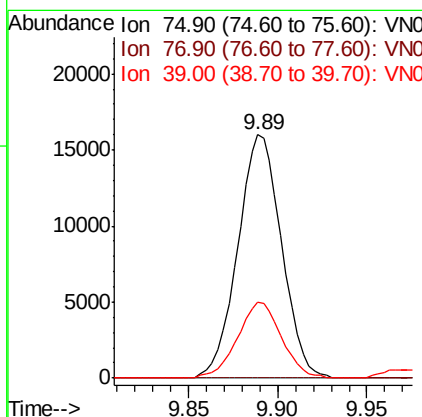


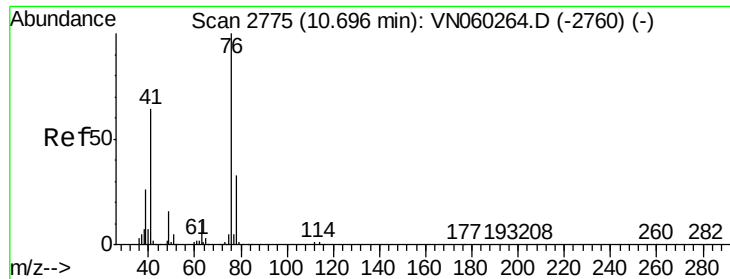
Instrument :
MSVOA_N
ClientSampleId :
OILY-STONES

Tot	Ion: 92	Resp:	3156
Ion	Ratio	Lower	Upper
92	100		
91	184.4	138.1	207.1



Tgt	Ion: 75	Resp:	27341
Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.8	37.2#
39	31.1	43.8	65.8#

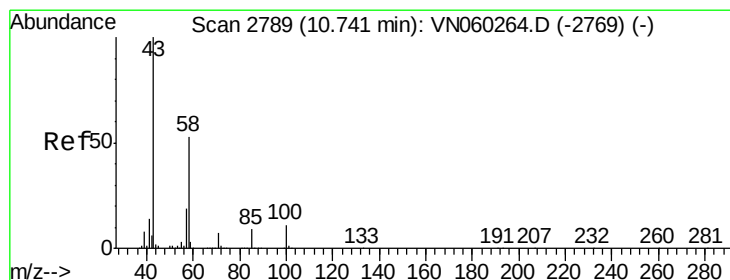
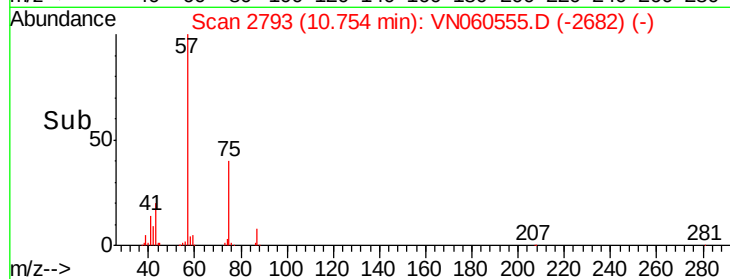
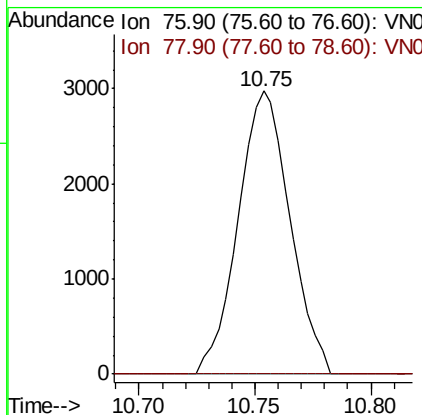
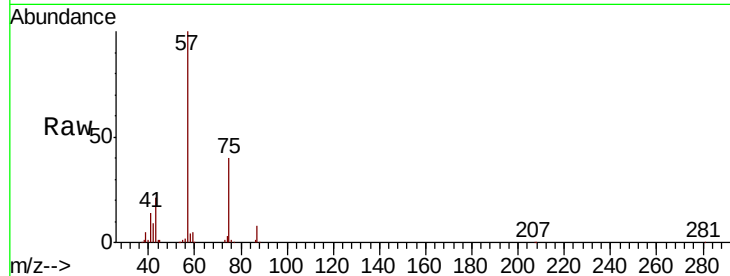




#57
 1,3-Dichloropropane
 Concen: 1.139 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060555.D
 Acq: 17 Mar 2020 14:41

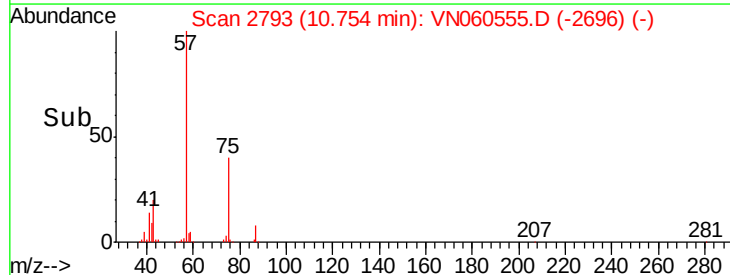
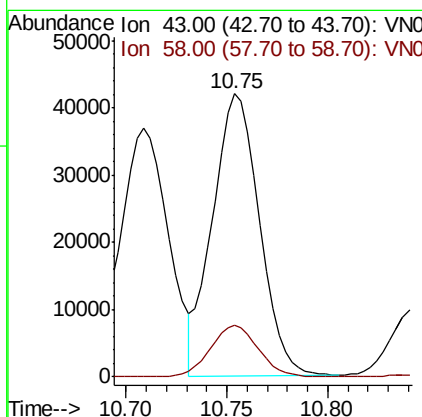
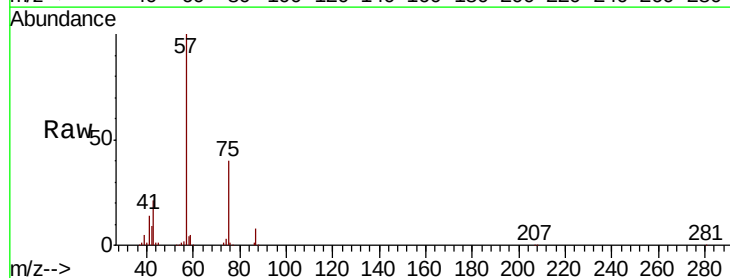
Instrument :
 MSVOA_N
 ClientSampleId :
 OILY-STONES

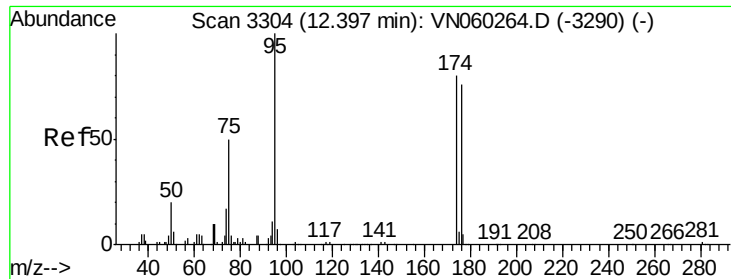
Tot Ion: 76 Resp: 4623
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#



#59
 2-Hexanone
 Concen: 29.124 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060555.D
 Acq: 17 Mar 2020 14:41

Tgt Ion: 43 Resp: 68051
 Ion Ratio Lower Upper
 43 100
 58 18.4 26.5 79.5#

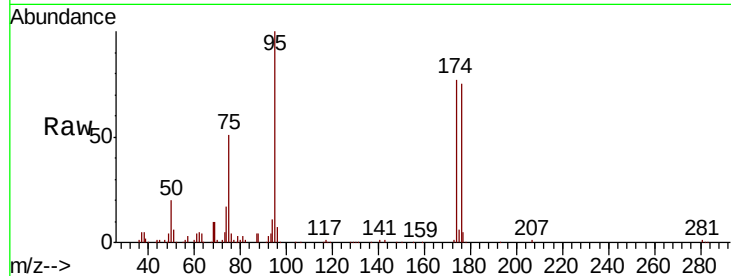




#62
4-Bromofluorobenzene
Concen: 52.118 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060555.D
Acq: 17 Mar 2020 14:41

Instrument :
MSVOA_N
ClientSampled :
OILY-STONES

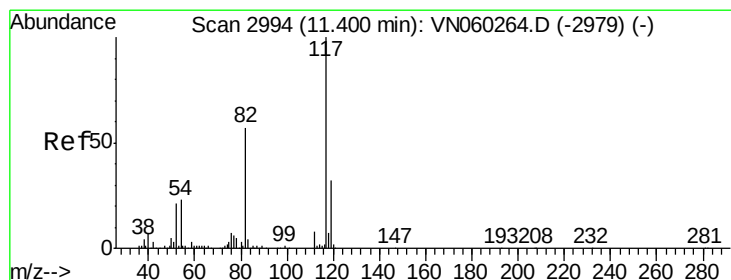
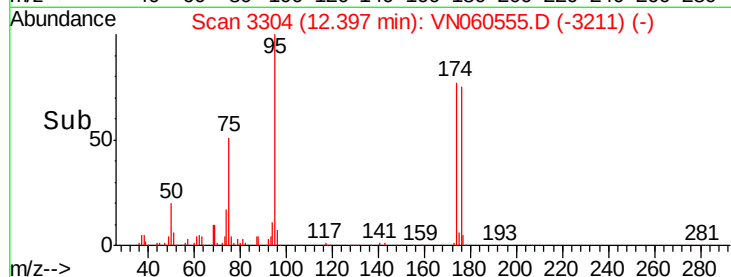
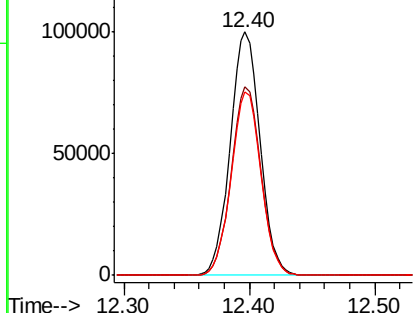
Tot Ion	Ratio	Lower	Upper
95	100		
174	77.4	0.0	159.2
176	75.3	0.0	153.8



Abundance Ion 94.90 (94.60 to 95.60): VN060264.D (-3290) (-)

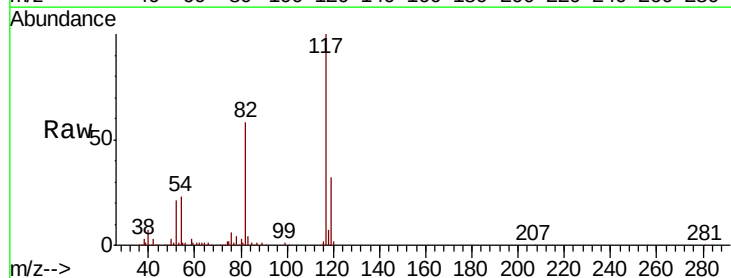
Ion 173.80 (173.50 to 174.50): VN060264.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060264.D (-3290) (-)



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060555.D
Acq: 17 Mar 2020 14:41

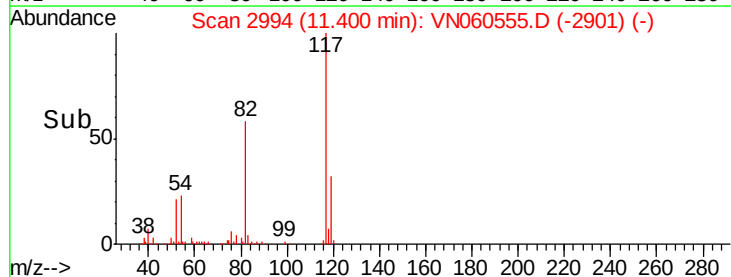
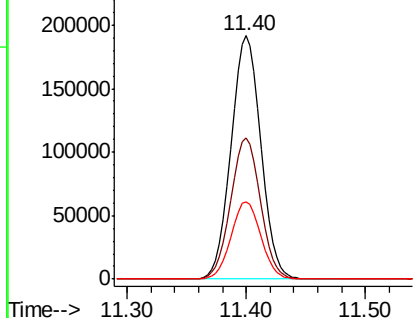
Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.1	45.8	68.6
119	31.9	25.8	38.8

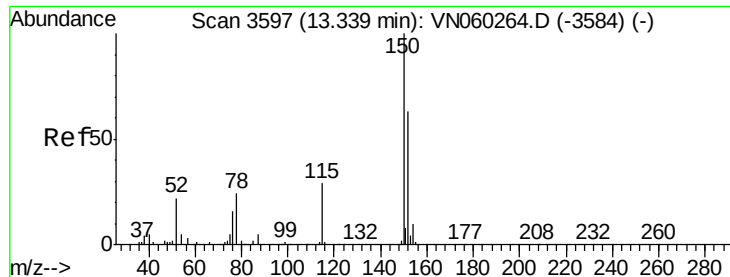


Abundance Ion 116.90 (116.60 to 117.60): VN060264.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060264.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060264.D (-2979) (-)



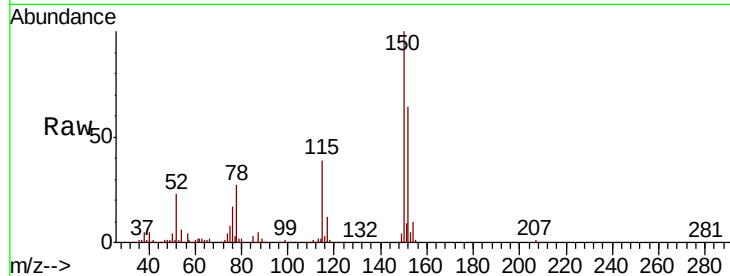


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060555.D
Acq: 17 Mar 2020 14:41

Instrument :
MSVOA_N
ClientSampleId :
OILY-STONES

Tot Ion	Ratio	Lower	Upper
152	100		
115	60.4	30.0	90.0
150	157.3	0.0	349.6

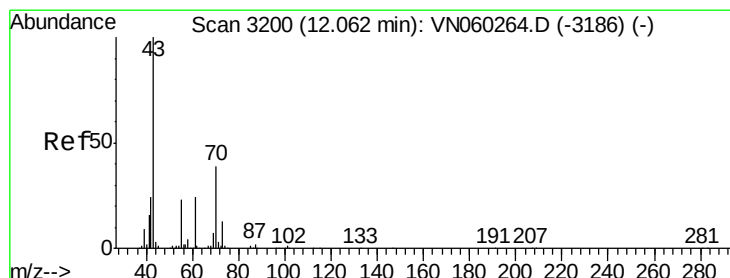
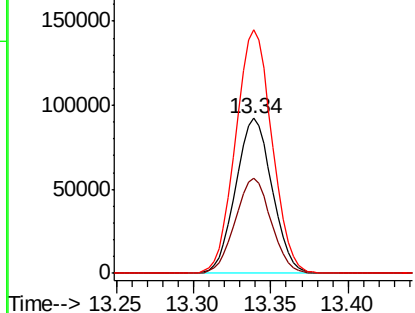
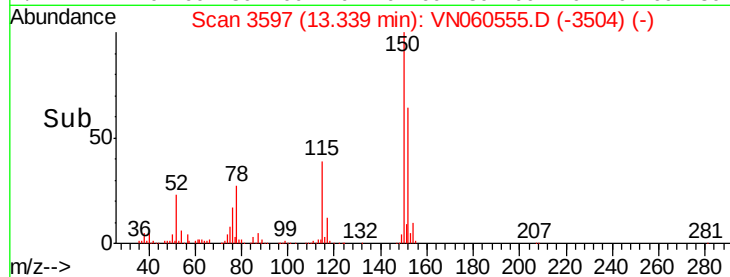


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

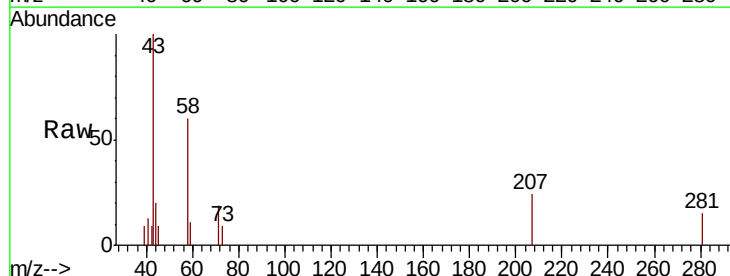
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 0.698 ug/l
RT: 12.02 min Scan# 3188
Delta R.T. -0.04 min
Lab File: VN060555.D
Acq: 17 Mar 2020 14:41

Tgt 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#



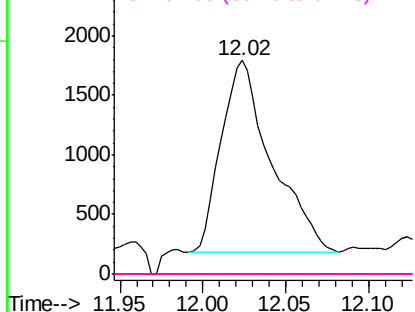
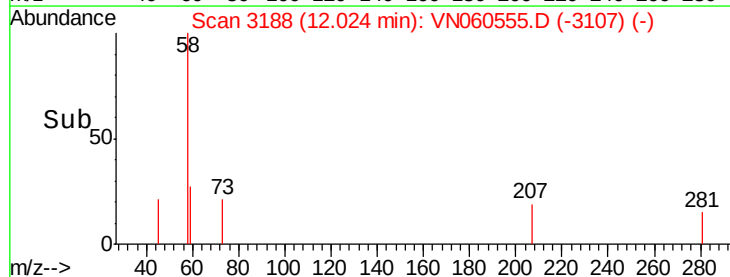
Abundance

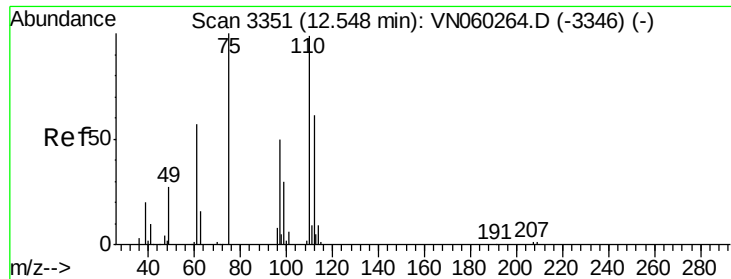
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 25.159 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060555.D

Acq: 17 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampled :

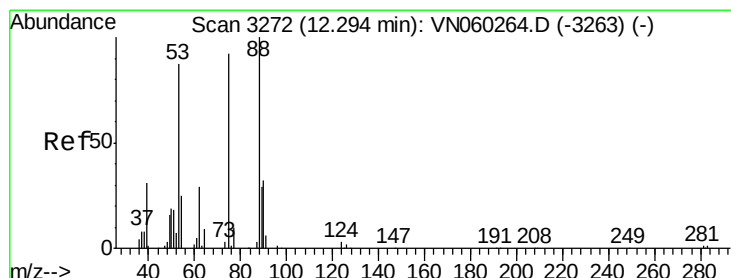
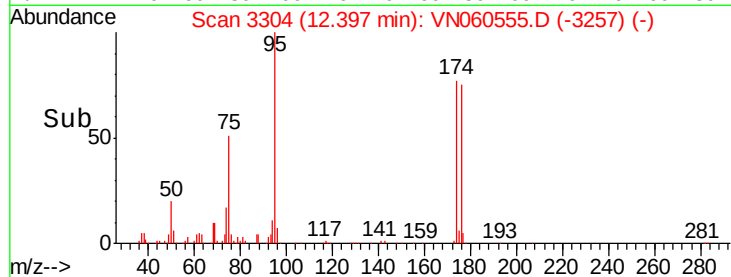
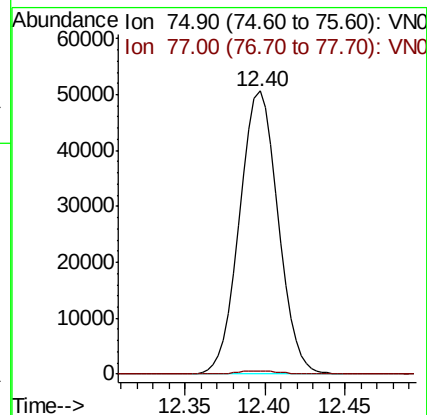
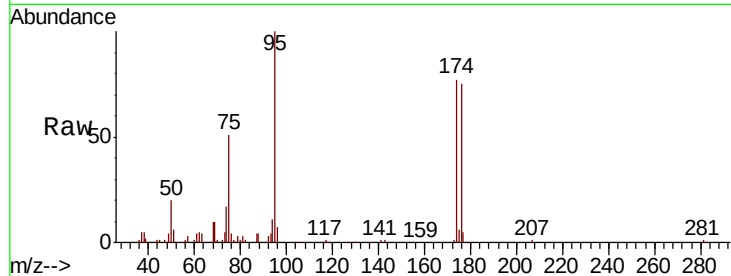
OILY-STONES

Tot Ion: 75 Resp: 83248

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.452 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060555.D

Acq: 17 Mar 2020 14:41

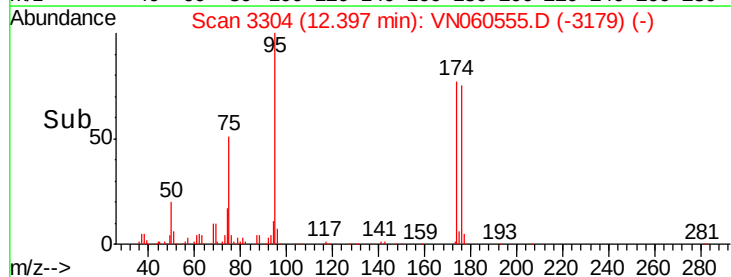
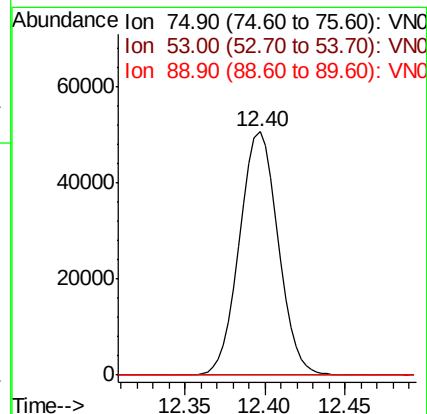
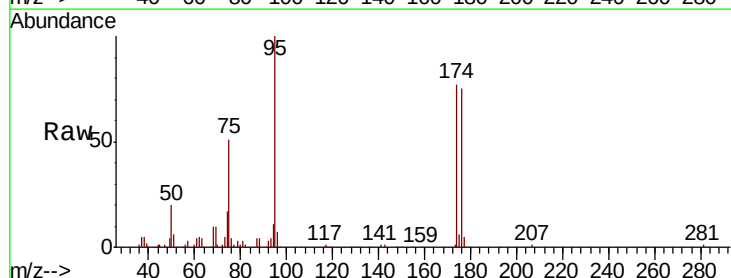
Tgt Ion: 75 Resp: 83248

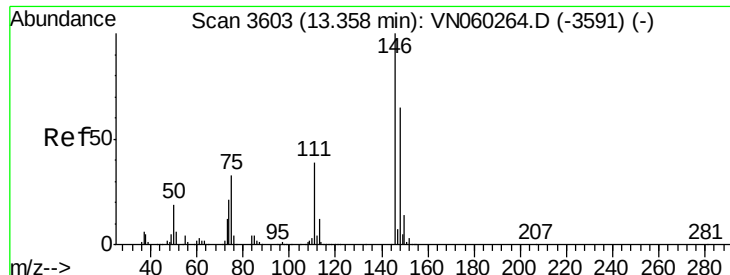
Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#

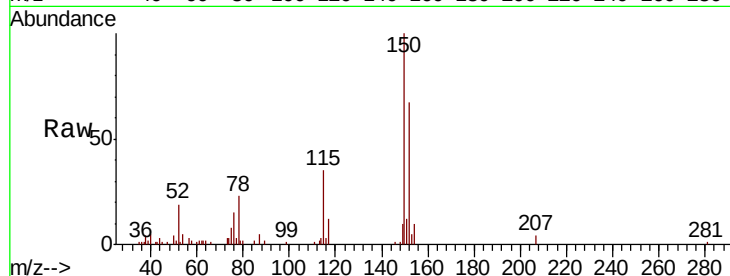




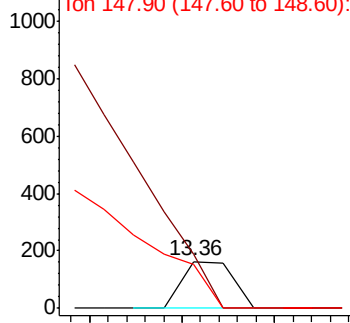
#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN060555.D
 Acq: 17 Mar 2020 14:41

Instrument :
 MSVOA_N
 ClientSampled :
 OILY-STONES

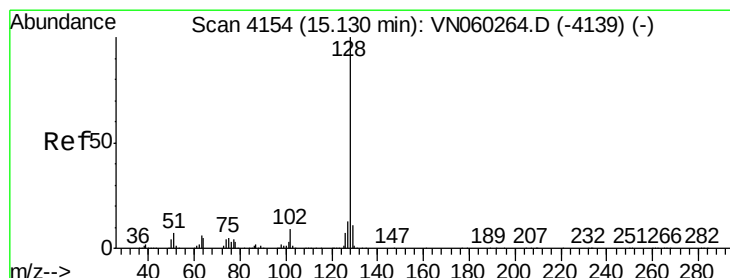
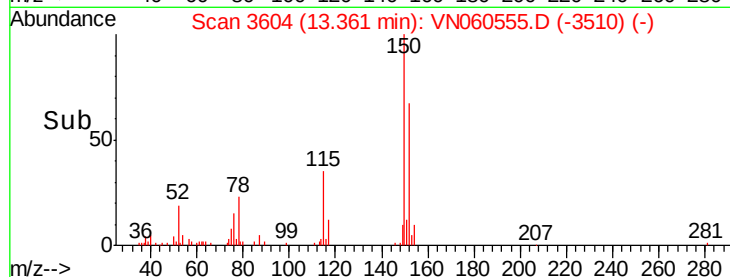
Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.8	59.4#
148	0.0	32.3	96.9#



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

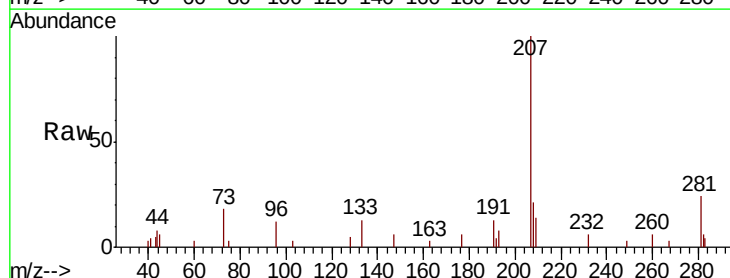


Time-->

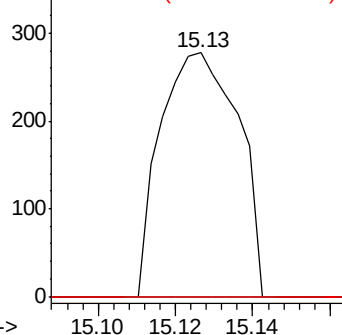


#95
 Naphthalene
 Concen: Below Cal
 RT: 15.13 min Scan# 4153
 Delta R.T. -0.00 min
 Lab File: VN060555.D
 Acq: 17 Mar 2020 14:41

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.6	13.0#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V



Time-->

