

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081619\
 Data File : VN057329.D
 Acq On : 15 Aug 2019 14:15
 Operator : JC/SP
 Sample : K4264-07
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-3-C1-(3)

Quant Time: Aug 16 02:00:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081519W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 15 11:33:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1116526	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1554483	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	1262941	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	321532	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.02	65	515690	42.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.98%	
35) Dibromofluoromethane	7.58	113	466728	45.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.60%	
50) Toluene-d8	10.08	98	1797846	48.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.48%	
62) 4-Bromofluorobenzene	12.40	95	460513	34.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	69.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.41	74	3214	0.510	ug/l	56
11) Tert butyl alcohol	4.78	59	568	0.329	ug/l #	73
16) Acetone	3.81	43	23739	5.638	ug/l	97
18) Methyl Acetate	4.32	43	24903	Below Cal		97
20) Methylene Chloride	4.54	84	18673	1.585	ug/l	98
25) 2-Butanone	6.83	43	4341	0.712	ug/l #	86
29) Tetrahydrofuran	7.20	42	1748	0.453	ug/l #	90
31) Cyclohexane	7.66	56	17408	1.053	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	66406	4.838	ug/l #	48
38) Carbon Tetrachloride	7.66	117	94178	6.604	ug/l #	15
43) Isopropyl Acetate	8.16	43	155569	6.588	ug/l #	90
45) 1,2-Dichloropropane	9.26	63	3332	0.308	ug/l #	44
48) Methyl methacrylate	9.18	41	8546	0.923	ug/l #	11
49) 1,4-Dioxane	9.20	88	155	0.796	ug/l #	26
51) 4-Methyl-2-Pentanone	9.98	43	11773	1.015	ug/l	92
54) cis-1,3-Dichloropropene	9.90	75	73951	4.335	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	11457	0.667	ug/l #	43
59) 2-Hexanone	10.76	43	155551	18.657	ug/l #	52
71) Bromoform	12.40	173	4216	0.542	ug/l #	1
73) Isopropylbenzene	12.25	105	2180	Below Cal		91
74) N-amyl acetate	12.07	43	1916	0.205	ug/l #	61
75) 1,1,2,2-Tetrachloroethane	12.51	83	180	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	212850	32.985	ug/l #	100
77) Bromobenzene	12.52	156	1643	Below Cal		80
79) 2-Chlorotoluene	12.68	91	3539	Below Cal		85
80) 1,3,5-Trimethylbenzene	12.74	105	5316	Below Cal		100
81) trans-1,4-Dichloro-2-buten	12.40	75	212850	80.721	ug/l #	15
82) 4-Chlorotoluene	12.78	91	4007	0.218	ug/l	98
83) tert-Butylbenzene	12.99	119	2559	Below Cal		90
85) sec-Butylbenzene	13.18	105	3662	Below Cal		92
86) p-Isopropyltoluene	13.29	119	5008	0.211	ug/l	91
87) 1,3-Dichlorobenzene	13.28	146	4098	0.364	ug/l	92
88) 1,4-Dichlorobenzene	13.28	146	4098	0.383	ug/l	94
89) n-Butylbenzene	13.62	91	6304	0.373	ug/l	98

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QLast Update : Thu Aug 15 11:33:14 2019
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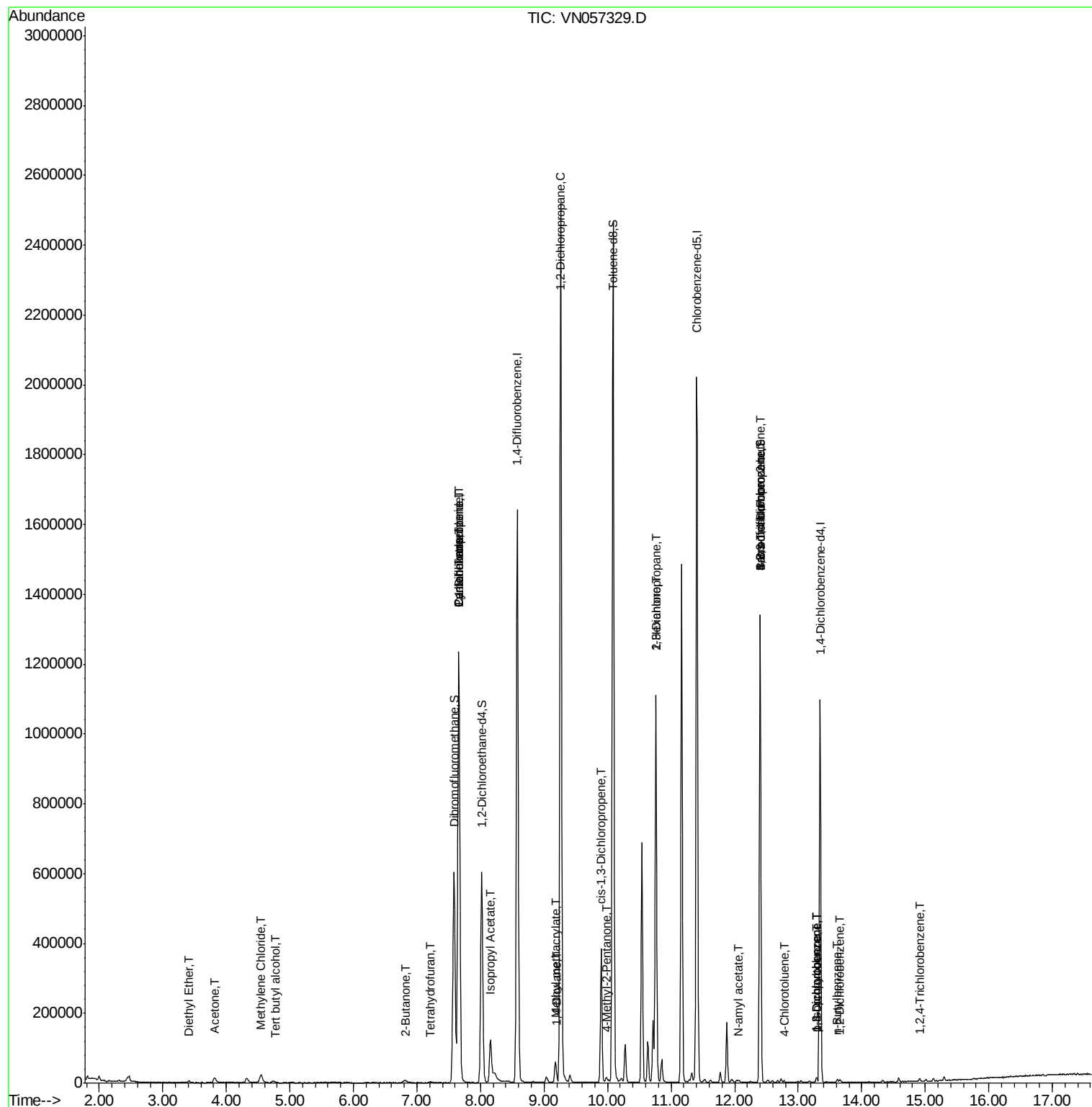
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
90) Hexachloroethane	13.88	117	30	Below Cal #	1
91) 1,2-Dichlorobenzene	13.65	146	4756	0.453 ug/l	97
93) 1,2,4-Trichlorobenzene	14.91	180	3503	6.101 ug/l	97
94) Hexachlorobutadiene	15.01	225	1324	Below Cal	93
95) Naphthalene	15.13	128	5792	Below Cal #	94
96) 1,2,3-Trichlorobenzene	15.29	180	3938	Below Cal	99

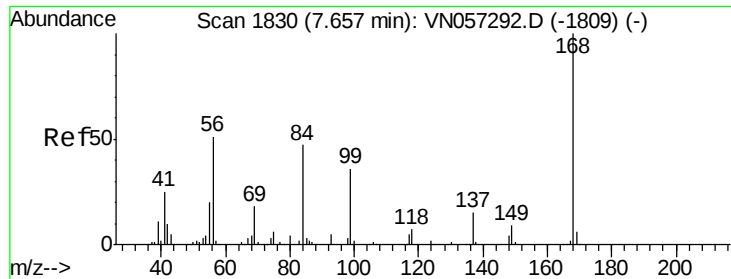
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN057329.D

Acq: 15 Aug 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

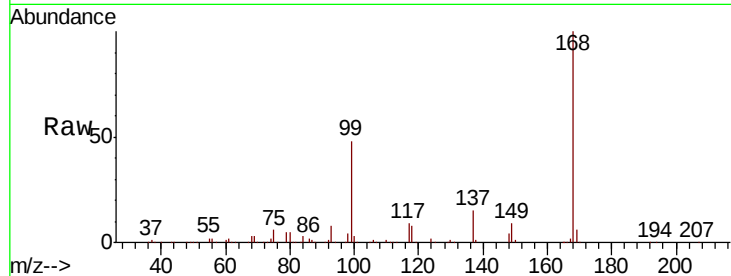
REACTOR-3-C1-(3)

Tgt Ion:168 Resp: 1116526

Ion Ratio Lower Upper

168 100

99 47.6 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

500000

400000

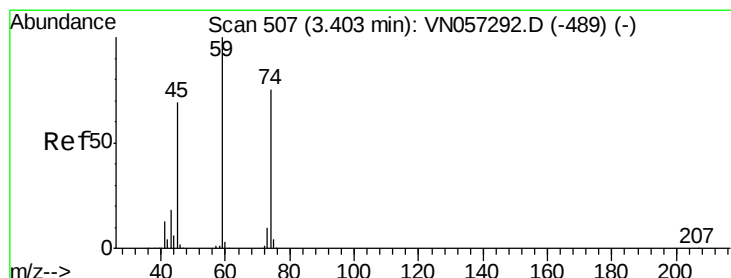
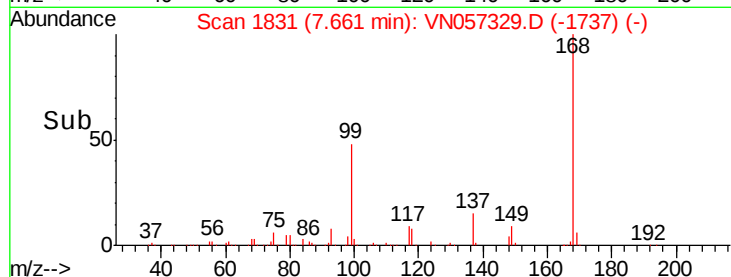
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 0.510 ug/l

RT: 3.41 min Scan# 509

Delta R.T. 0.01 min

Lab File: VN057329.D

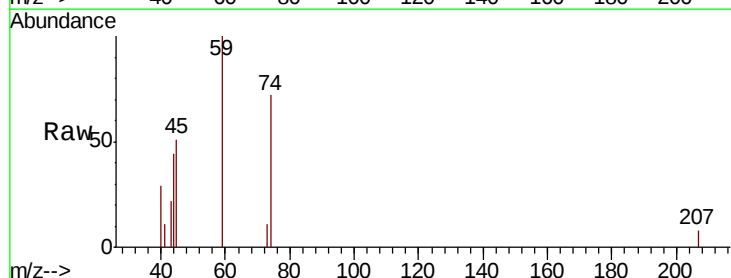
Acq: 15 Aug 2019 14:15

Tgt Ion: 74 Resp: 3214

Ion Ratio Lower Upper

74 100

45 50.2 45.9 137.6



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

3.41

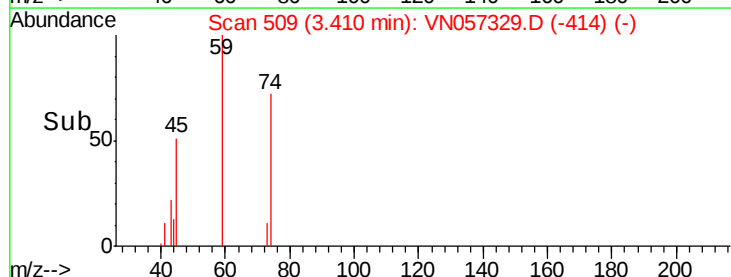
1500

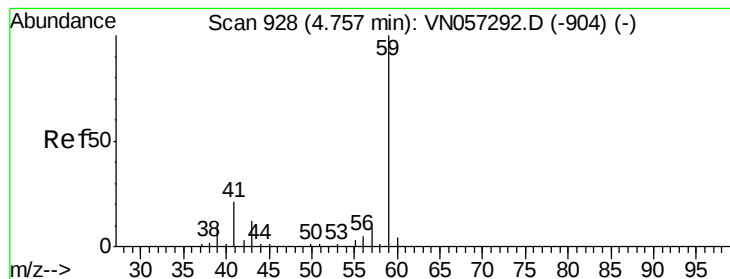
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Time-->



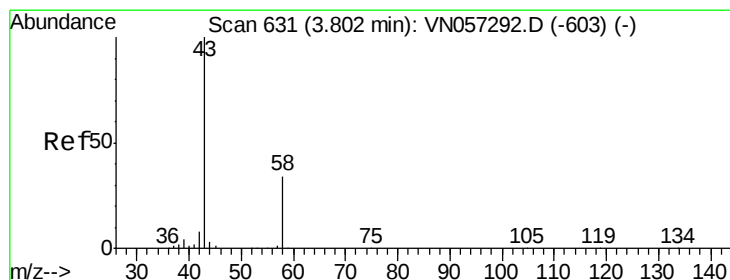
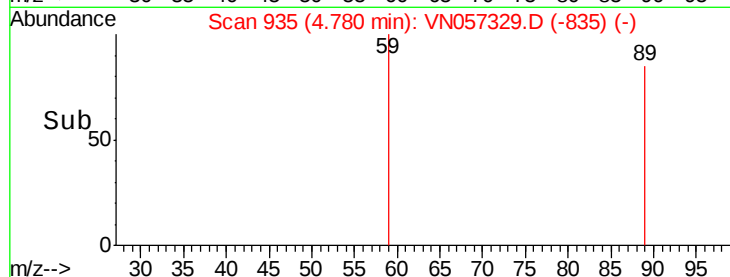
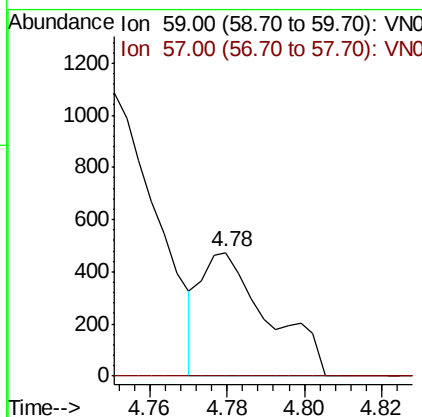
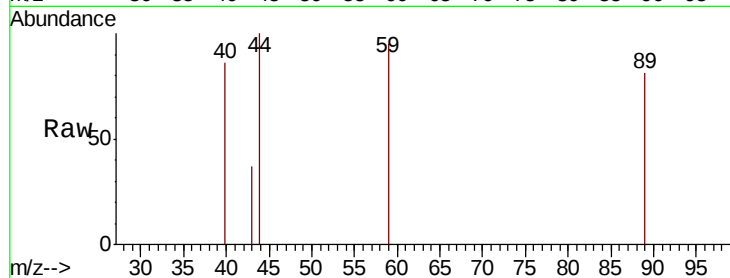


#11

Tert butyl alcohol
 Concen: 0.329 ug/l
 RT: 4.78 min Scan# 935
 Delta R.T. 0.02 min
 Lab File: VN057329.D
 Acq: 15 Aug 2019 14:15

Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-3-C1-(3)

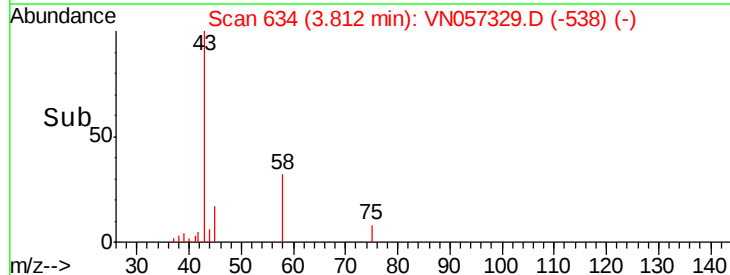
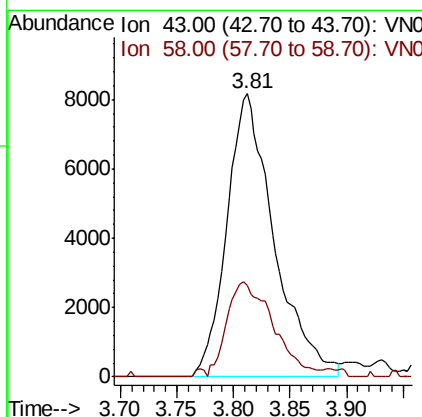
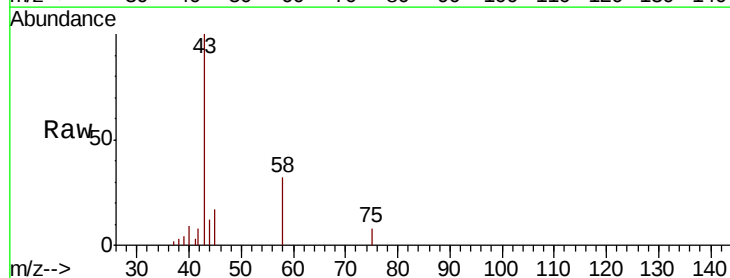
Tgt Ion: 59 Resp: 568
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

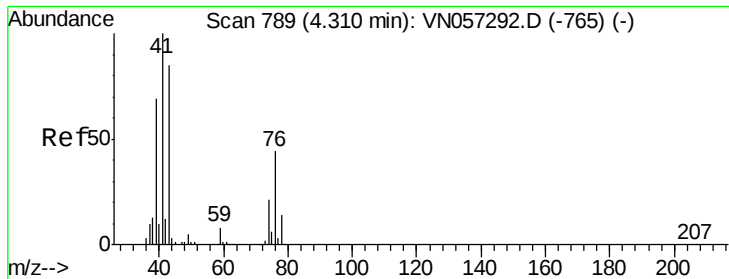


#16

Acetone
 Concen: 5.638 ug/l
 RT: 3.81 min Scan# 634
 Delta R.T. 0.01 min
 Lab File: VN057329.D
 Acq: 15 Aug 2019 14:15

Tgt Ion: 43 Resp: 23739
 Ion Ratio Lower Upper
 43 100
 58 32.1 27.0 40.6

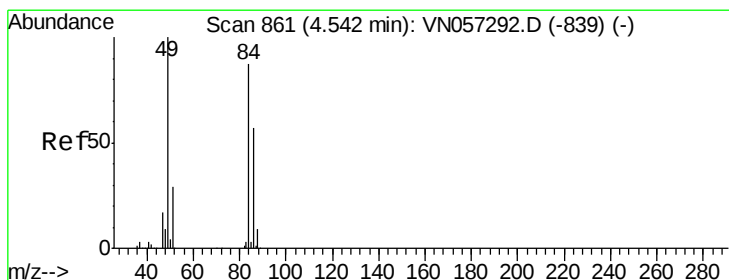
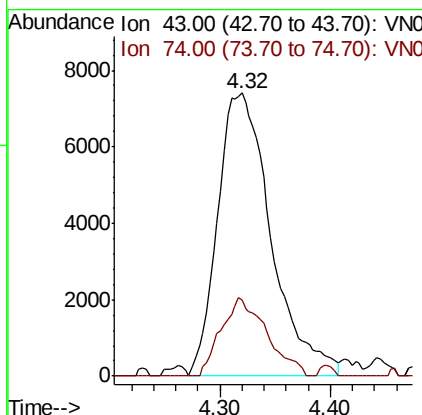
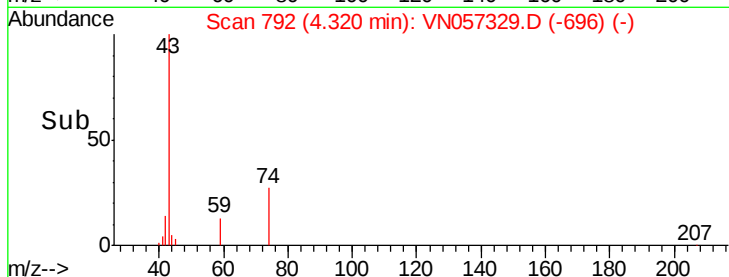
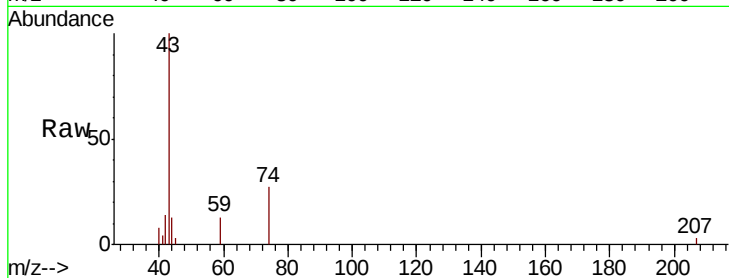




#18
Methyl Acetate
Concen: Below Cal
RT: 4.32 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN057329.D
Acq: 15 Aug 2019 14:15

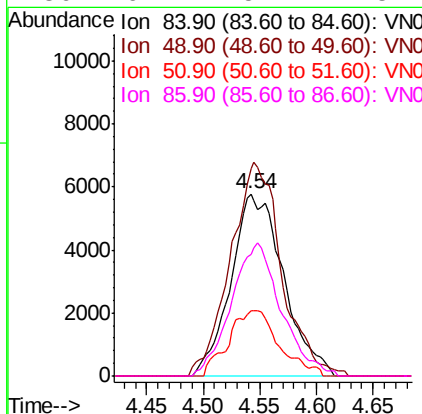
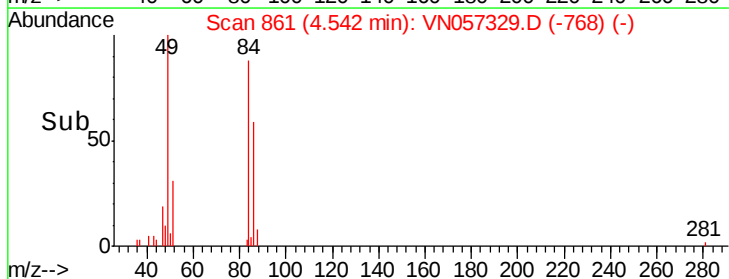
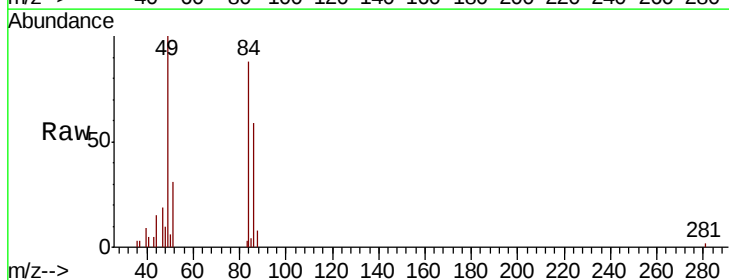
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-3-C1-(3)

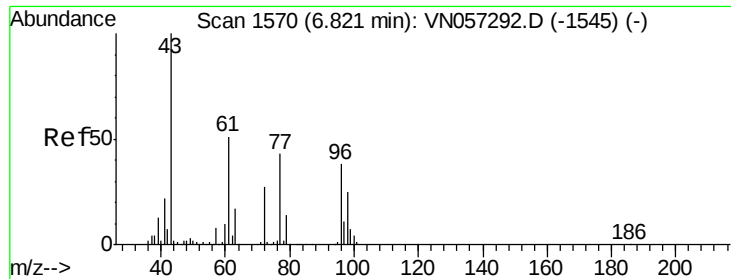
Tgt Ion: 43 Resp: 24903
Ion Ratio Lower Upper
43 100
74 23.7 20.2 30.2



#20
Methylene Chloride
Concen: 1.585 ug/l
RT: 4.54 min Scan# 861
Delta R.T. 0.00 min
Lab File: VN057329.D
Acq: 15 Aug 2019 14:15

Tgt Ion: 84 Resp: 18673
Ion Ratio Lower Upper
84 100
49 114.1 92.0 138.0
51 35.8 27.1 40.7
86 67.2 52.2 78.2





#25

2-Butanone

Concen: 0.712 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VN057329.D

Acq: 15 Aug 2019 14:15

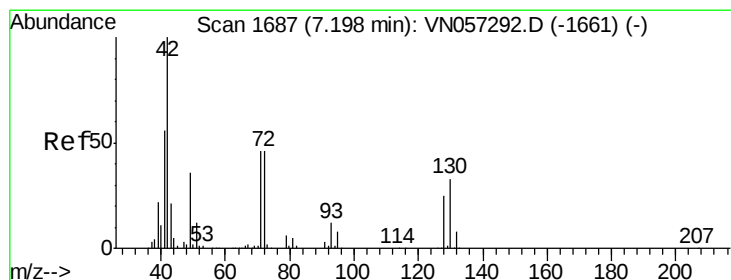
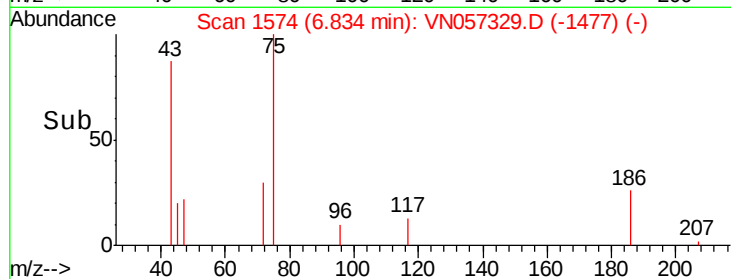
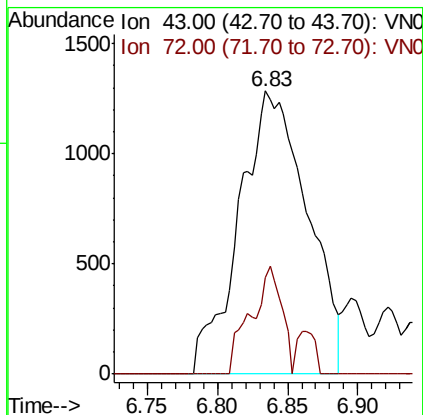
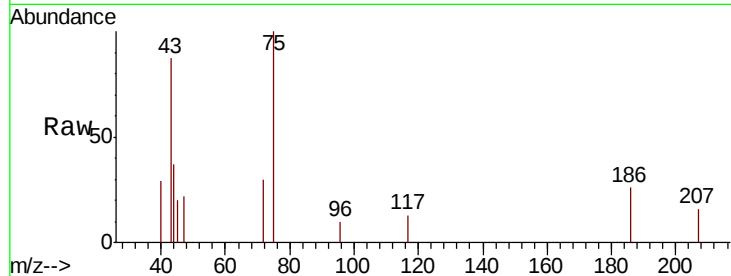
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-3-C1-(3)

Tgt Ion: 43 Resp: 4341

Ion Ratio Lower Upper

43 100

72 34.0 21.5 32.3#



#29

Tetrahydrofuran

Concen: 0.453 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN057329.D

Acq: 15 Aug 2019 14:15

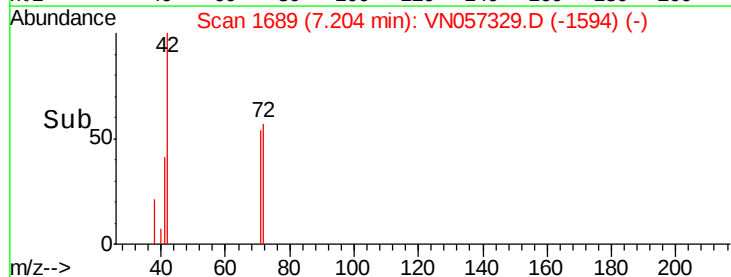
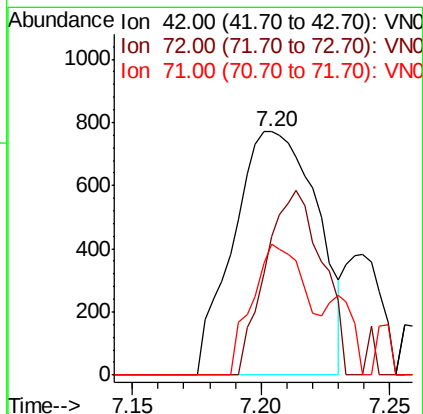
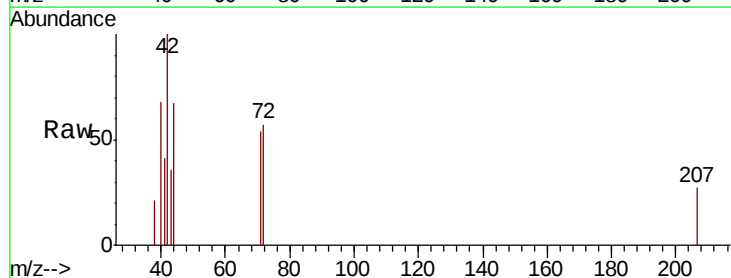
Tgt Ion: 42 Resp: 1748

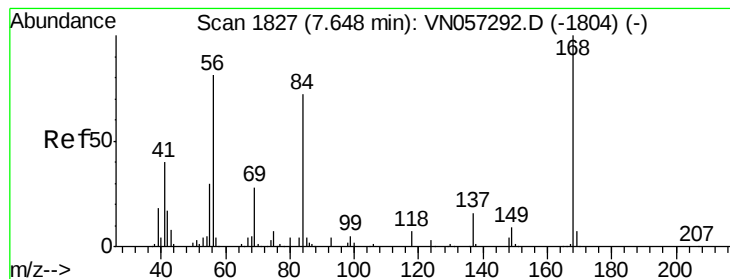
Ion Ratio Lower Upper

42 100

72 51.0 37.8 56.6

71 35.0 35.7 53.5#





#31

Cyclohexane

Concen: 1.053 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN057329.D

Acq: 15 Aug 2019 14:15

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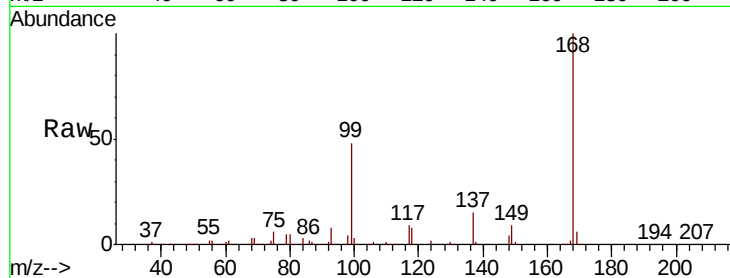
Tgt Ion: 56 Resp: 17408

Ion Ratio Lower Upper

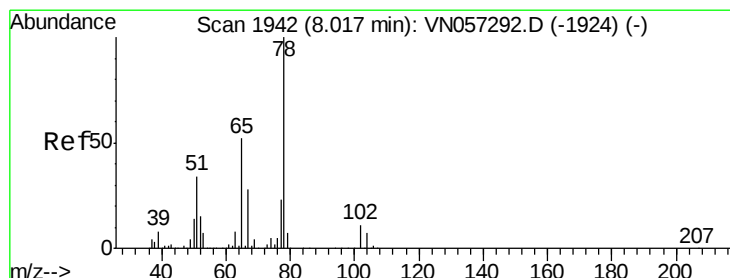
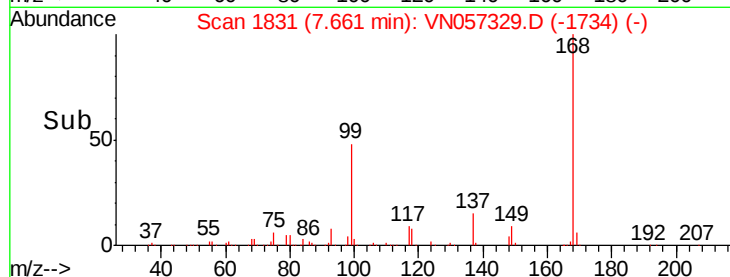
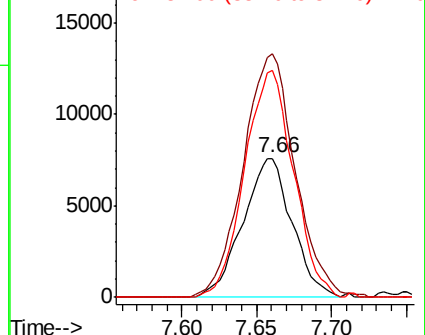
56 100

69 175.1 27.3 40.9#

84 163.0 71.0 106.6#



Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: 42.486 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. 0.00 min

Lab File: VN057329.D

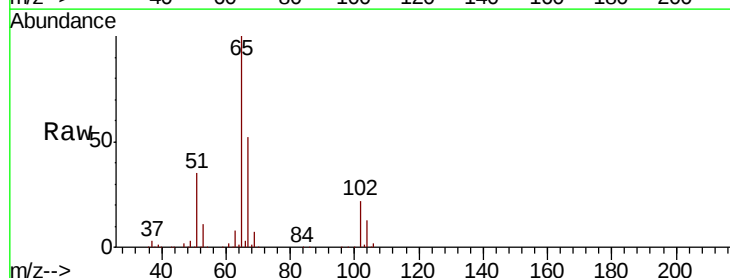
Acq: 15 Aug 2019 14:15

Tgt Ion: 65 Resp: 515690

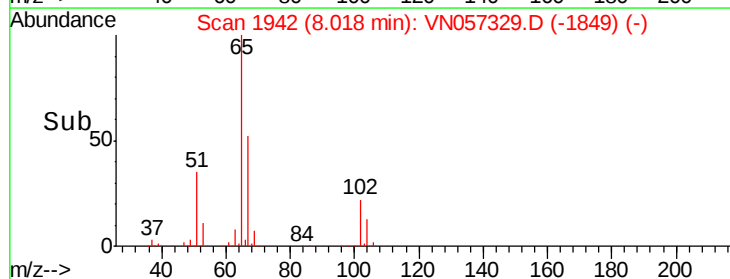
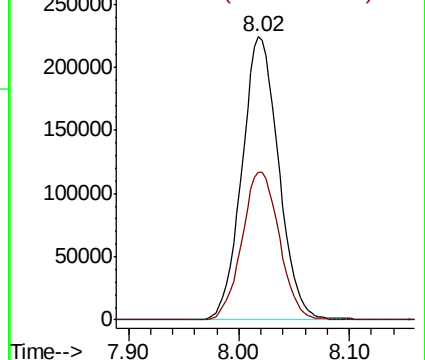
Ion Ratio Lower Upper

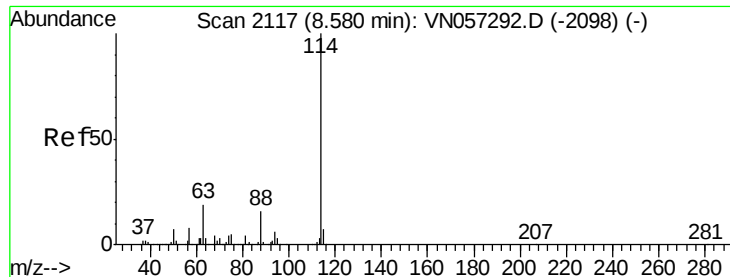
65 100

67 53.4 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

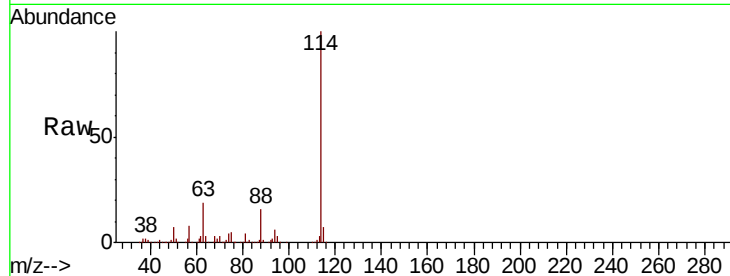




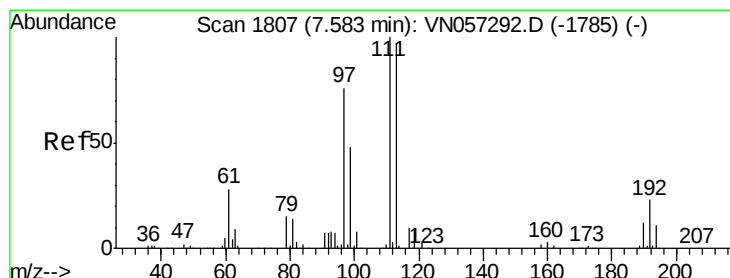
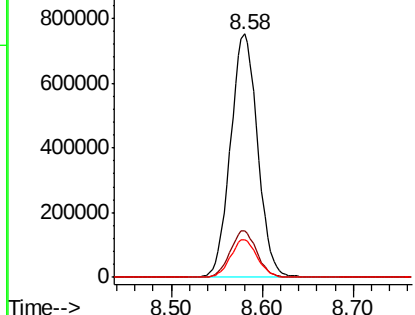
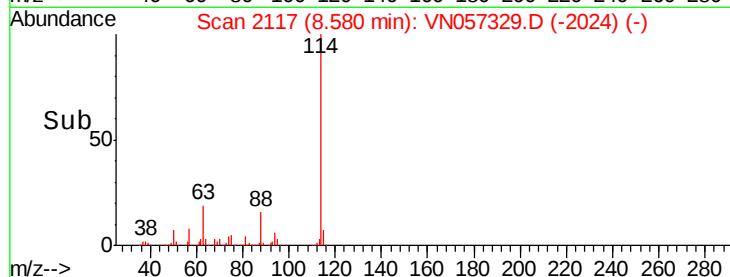
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2117
 Delta R.T. 0.00 min
 Lab File: VN057329.D
 Acq: 15 Aug 2019 14:15

Instrument :
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 ClientSampleId :
 REACTOR-3-C1-(3)

Tgt Ion:114 Resp: 1554483
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 38.8
 88 15.5 0.0 31.4

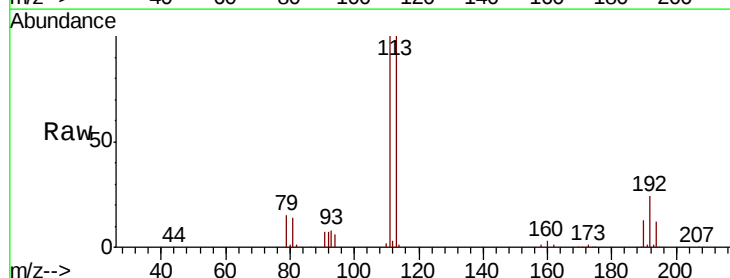


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

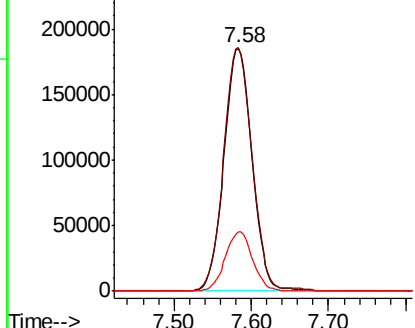
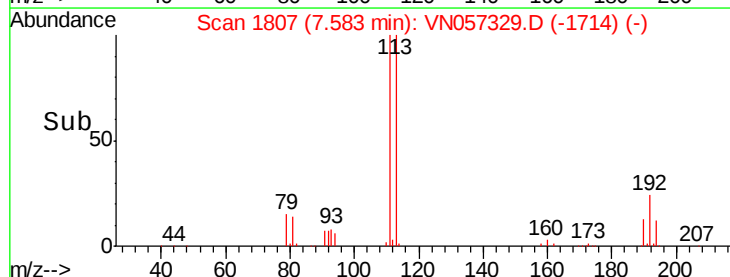


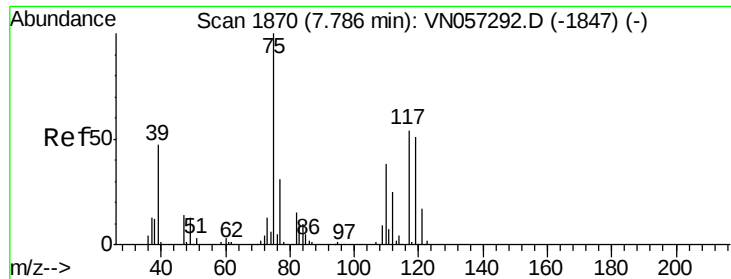
#35
 Dibromofluoromethane
 Concen: 45.803 ug/l
 RT: 7.58 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN057329.D
 Acq: 15 Aug 2019 14:15

Tgt Ion:113 Resp: 466728
 Ion Ratio Lower Upper
 113 100
 111 100.9 82.1 123.1
 192 23.8 19.3 28.9



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

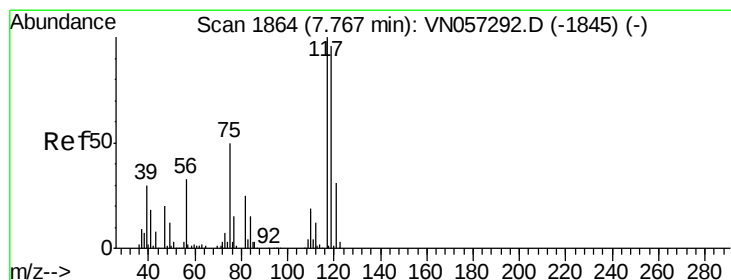
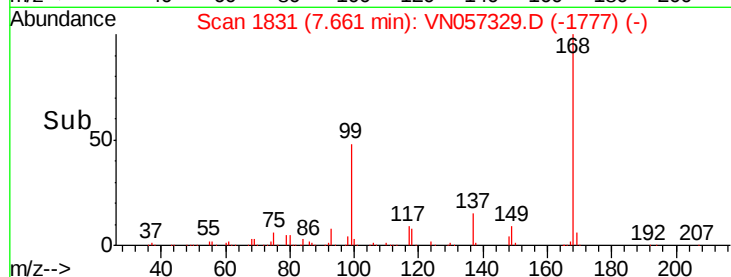
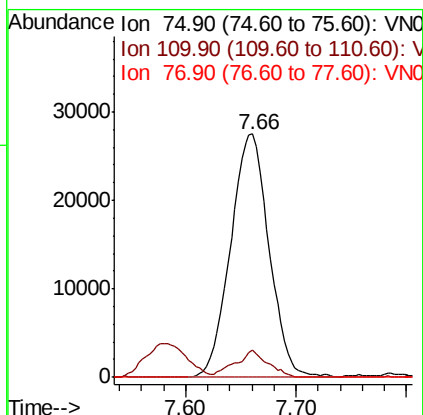
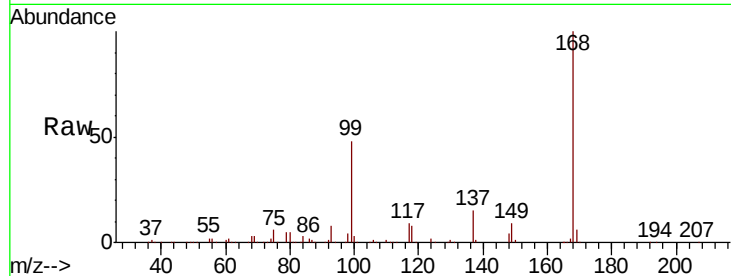




#36
 1,1-Dichloropropene
 Concen: 4.838 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN057329.D
 Acq: 15 Aug 2019 14:15

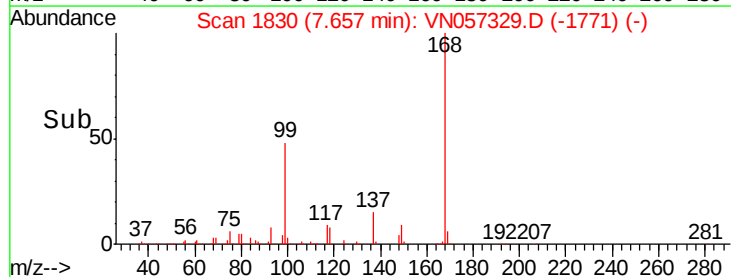
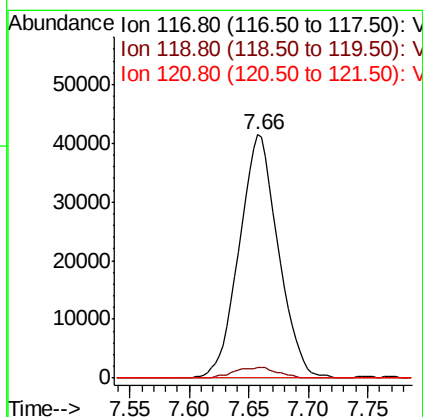
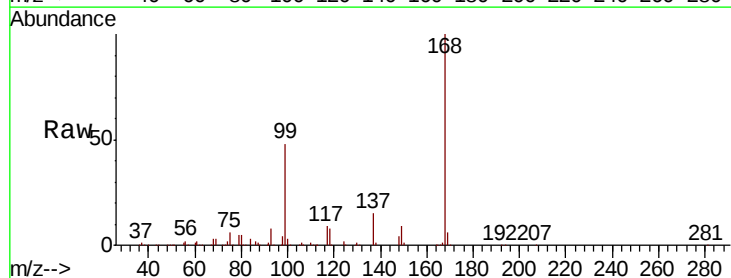
Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-3-C1-(3)

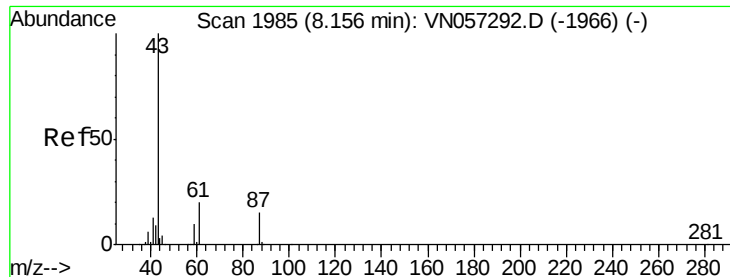
Tgt Ion: 75 Resp: 66406
 Ion Ratio Lower Upper
 75 100
 110 9.6 19.5 58.5#
 77 0.0 25.0 37.6#



#38
 Carbon Tetrachloride
 Concen: 6.604 ug/l
 RT: 7.66 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN057329.D
 Acq: 15 Aug 2019 14:15

Tgt Ion: 117 Resp: 94178
 Ion Ratio Lower Upper
 117 100
 119 4.2 76.8 115.2#
 121 0.0 25.0 37.4#





#43

Isopropyl Acetate

Concen: 6.588 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057329.D

Acq: 15 Aug 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-3-C1-(3)

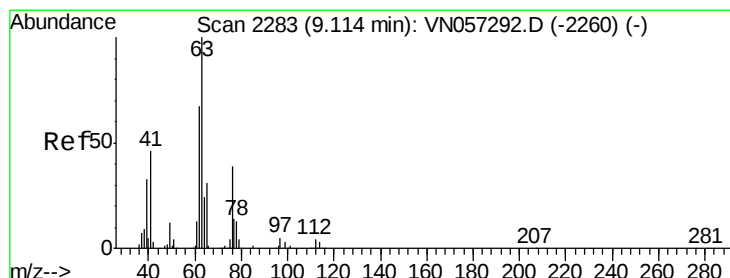
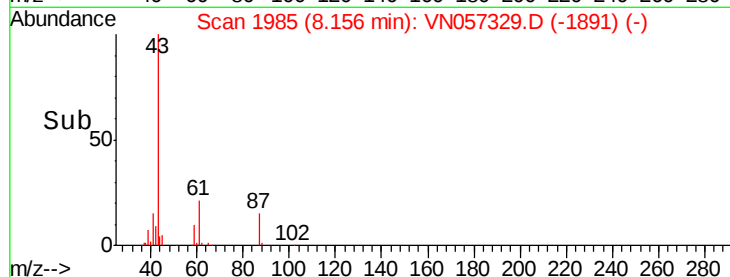
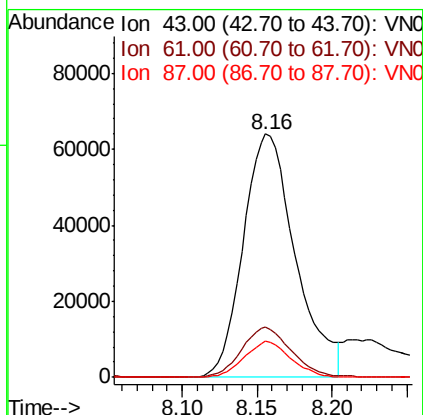
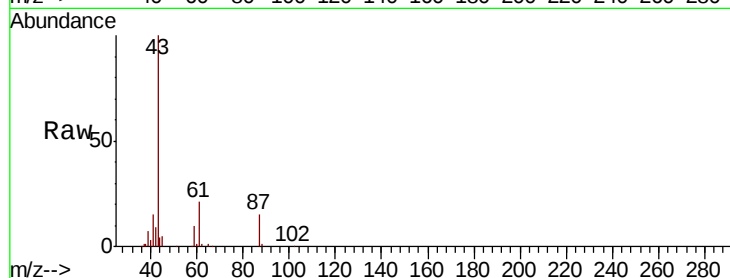
Tgt Ion: 43 Resp: 155569

Ion Ratio Lower Upper

43 100

61 19.6 21.6 32.4#

87 13.2 11.4 17.0



#45

1,2-Dichloropropane

Concen: 0.308 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.14 min

Lab File: VN057329.D

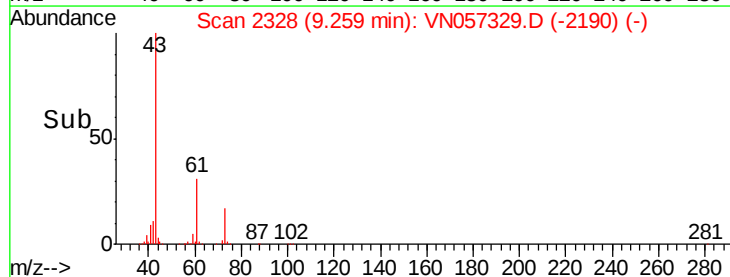
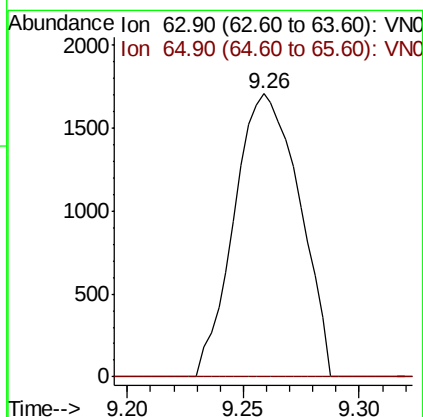
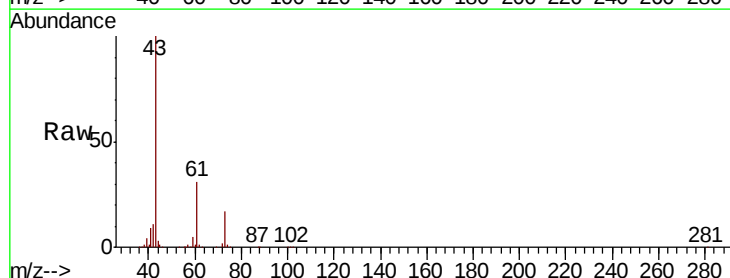
Acq: 15 Aug 2019 14:15

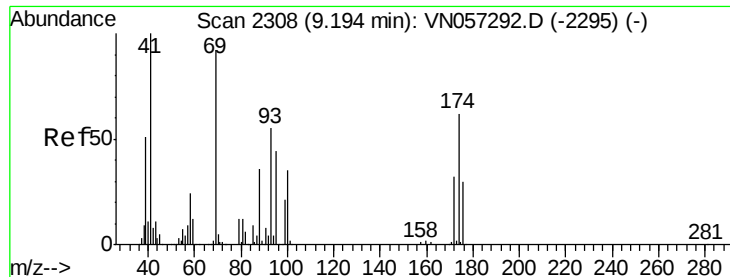
Tgt Ion: 63 Resp: 3332

Ion Ratio Lower Upper

63 100

65 0.0 24.8 37.2#





#48

Methyl methacrylate

Concen: 0.923 ug/l

RT: 9.18 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN057329.D

Acq: 15 Aug 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-3-C1-(3)

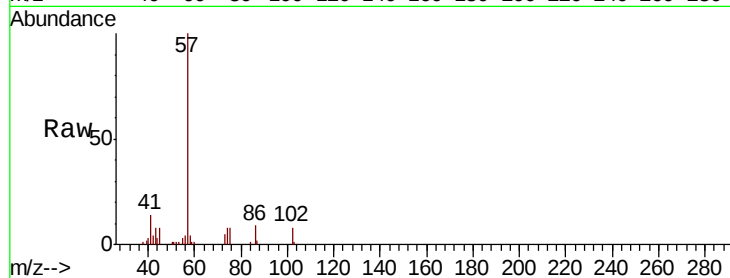
Tgt Ion: 41 Resp: 8546

Ion Ratio Lower Upper

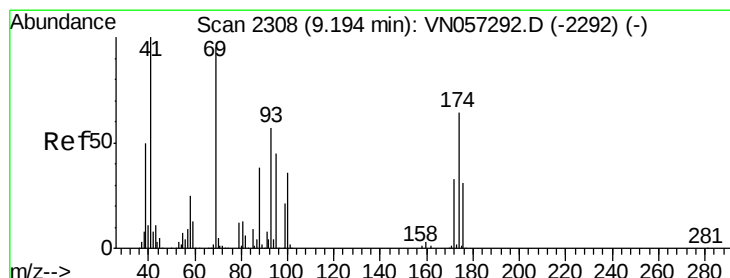
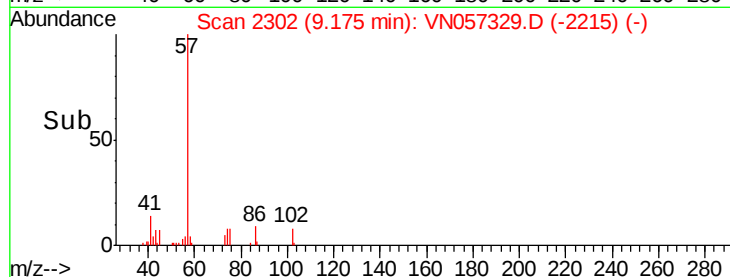
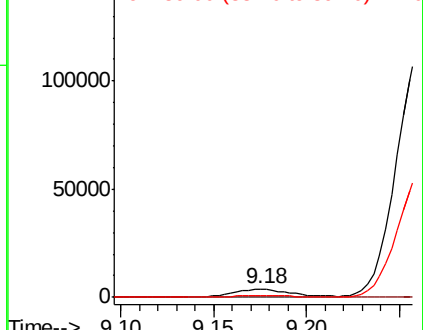
41 100

69 0.0 75.9 113.9#

39 0.0 42.3 63.5#



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



#49

1,4-Dioxane

Concen: 0.796 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.01 min

Lab File: VN057329.D

Acq: 15 Aug 2019 14:15

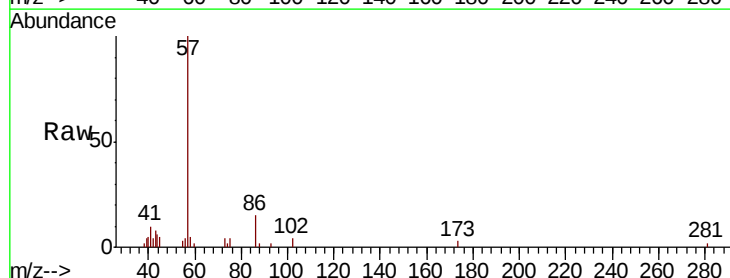
Tgt Ion: 88 Resp: 155

Ion Ratio Lower Upper

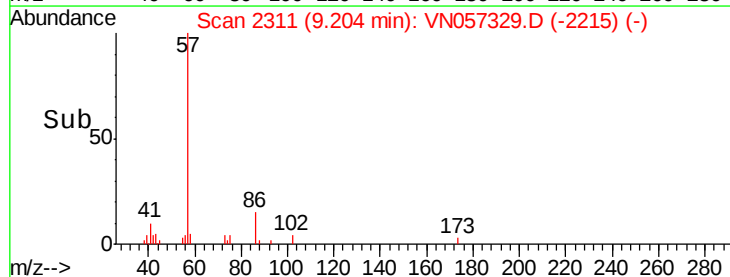
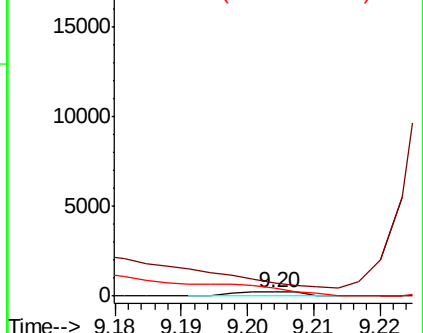
88 100

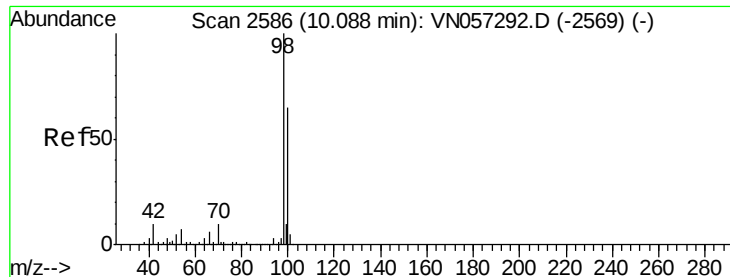
43 0.0 22.9 34.3#

58 0.0 52.7 79.1#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 48.238 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN057329.D

Acq: 15 Aug 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

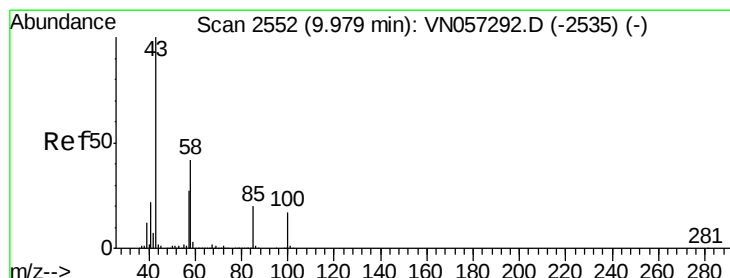
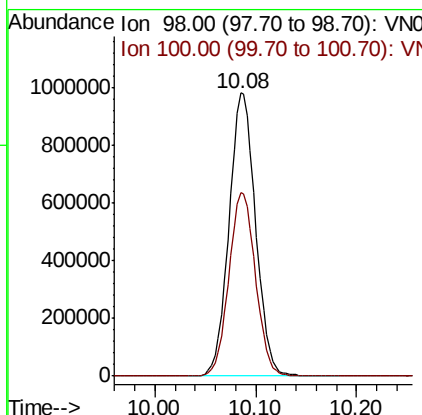
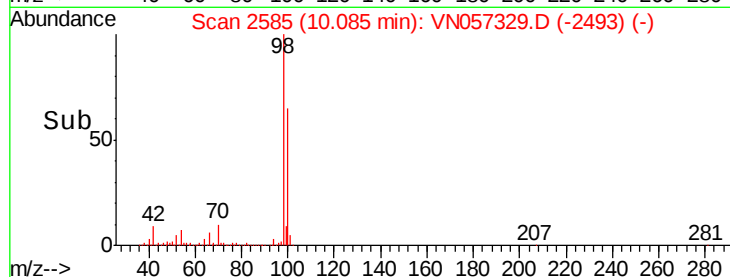
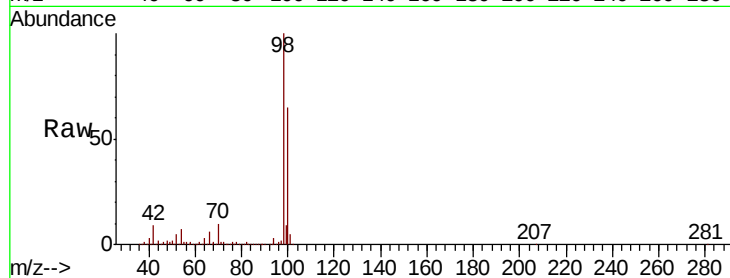
REACTOR-3-C1-(3)

Tgt Ion: 98 Resp: 1797846

Ion Ratio Lower Upper

98 100

100 65.1 51.9 77.9



#51

4-Methyl-2-Pentanone

Concen: 1.015 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057329.D

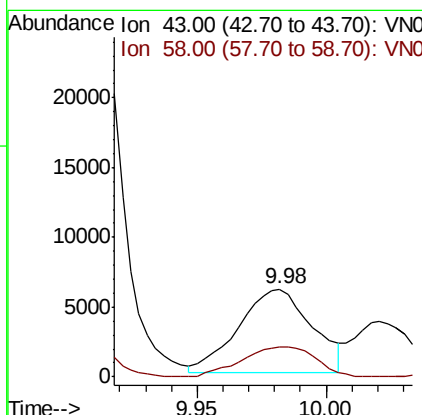
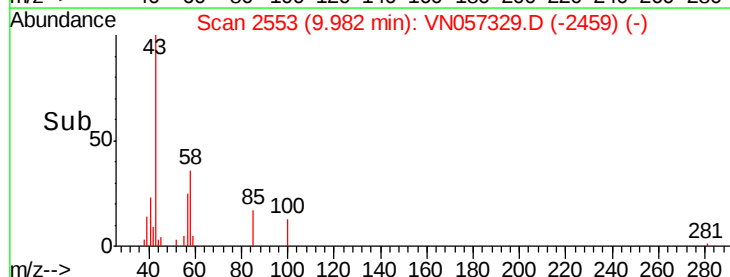
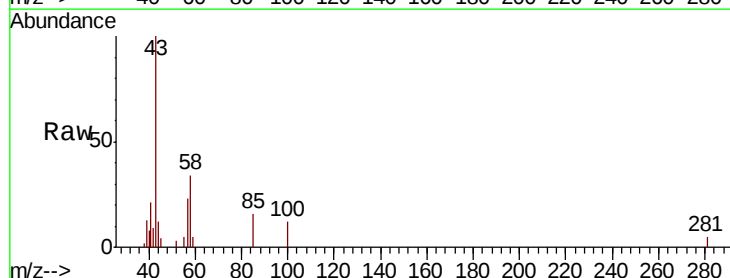
Acq: 15 Aug 2019 14:15

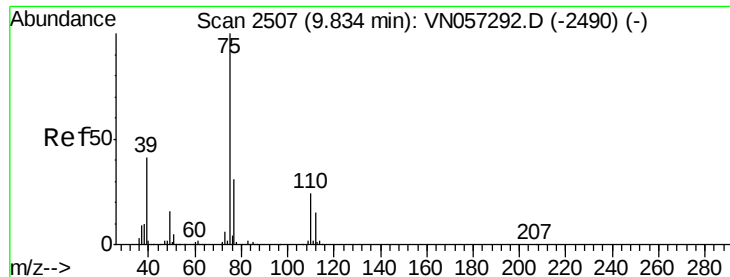
Tgt Ion: 43 Resp: 11773

Ion Ratio Lower Upper

43 100

58 36.4 33.2 49.8





#54

cis-1,3-Dichloropropene

Concen: 4.335 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.06 min

Lab File: VN057329.D

Acq: 15 Aug 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-3-C1-(3)

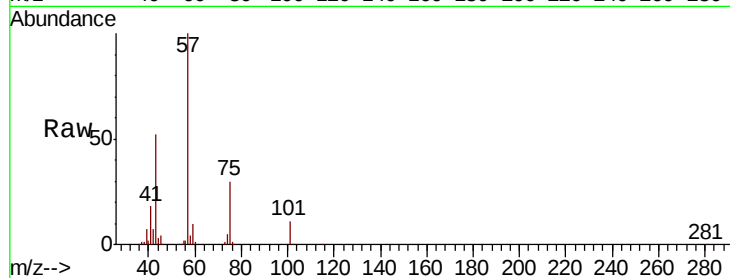
Tgt Ion: 75 Resp: 73951

Ion Ratio Lower Upper

75 100

77 0.9 24.9 37.3#

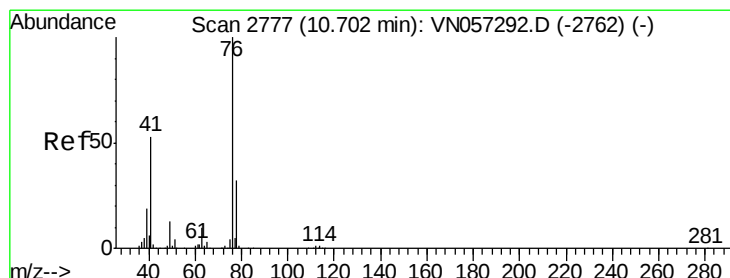
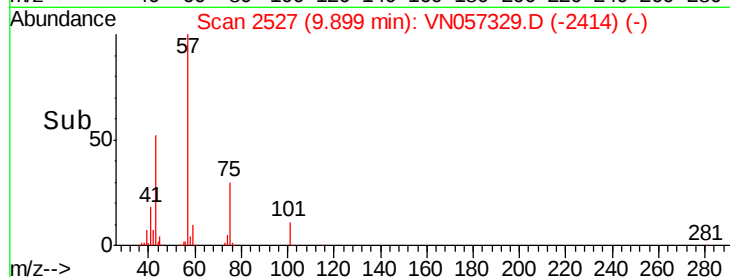
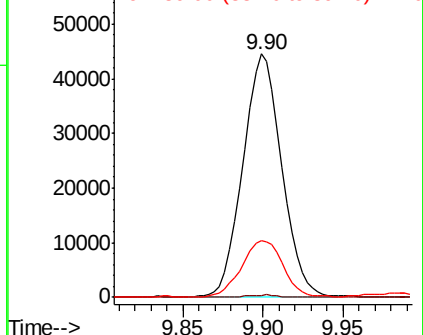
39 23.3 32.7 49.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.667 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.06 min

Lab File: VN057329.D

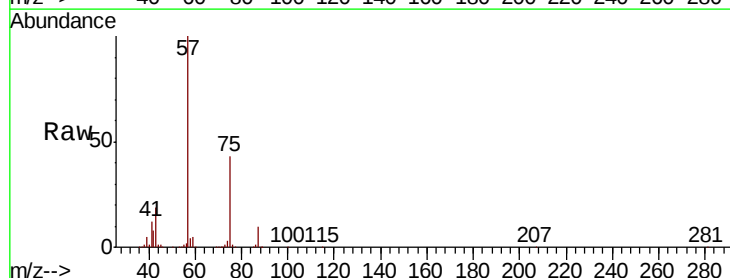
Acq: 15 Aug 2019 14:15

Tgt Ion: 76 Resp: 11457

Ion Ratio Lower Upper

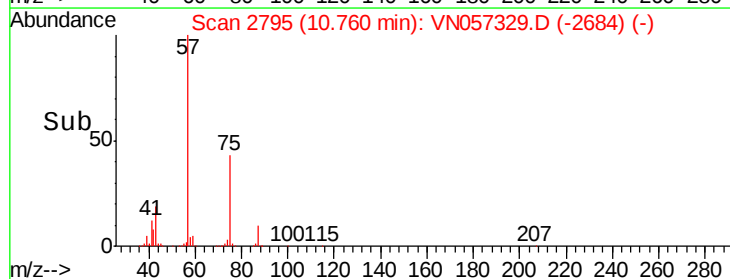
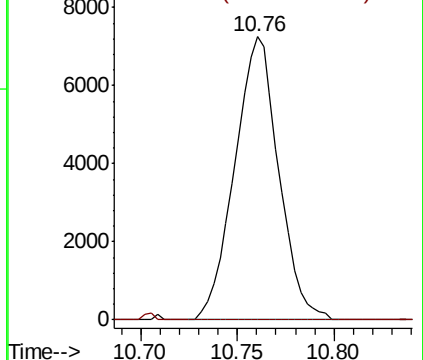
76 100

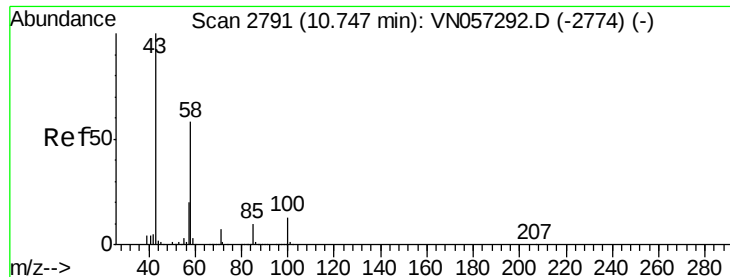
78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

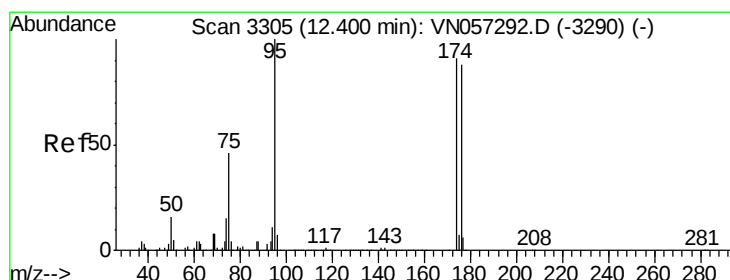
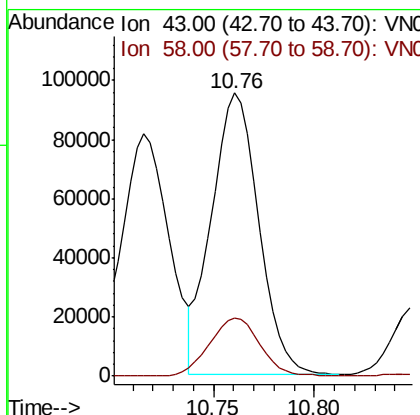
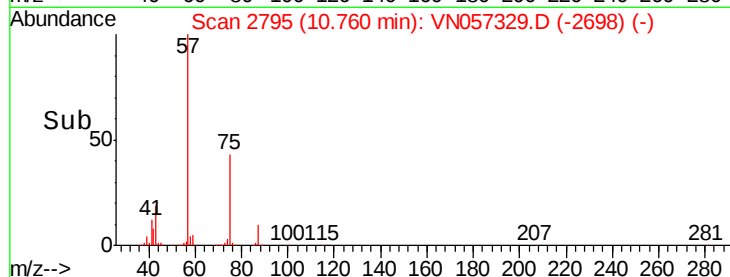
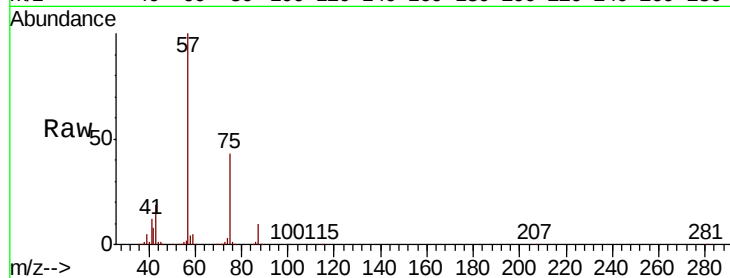




#59
2-Hexanone
Concen: 18.657 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN057329.D
Acq: 15 Aug 2019 14:15

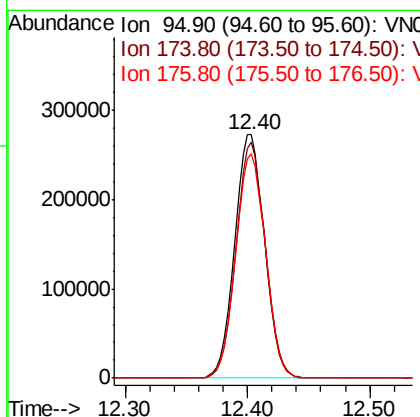
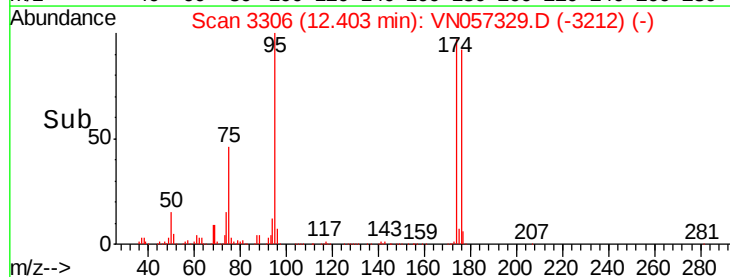
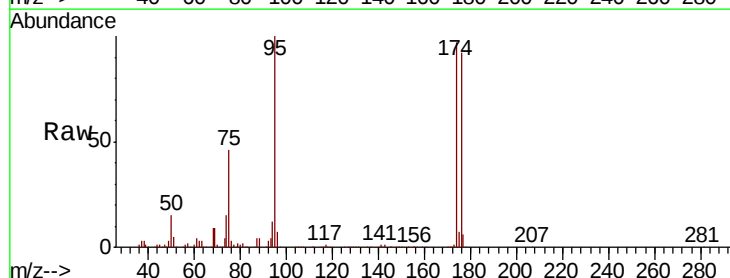
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-3-C1-(3)

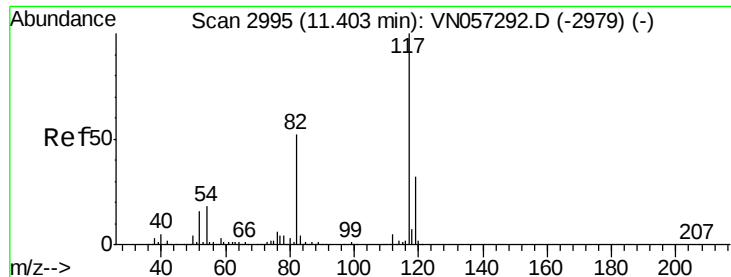
Tgt Ion: 43 Resp: 155551
Ion Ratio Lower Upper
43 100
58 22.2 28.6 85.9#



#62
4-Bromofluorobenzene
Concen: 34.964 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057329.D
Acq: 15 Aug 2019 14:15

Tgt Ion: 95 Resp: 460513
Ion Ratio Lower Upper
95 100
174 94.7 0.0 185.0
176 92.2 0.0 181.0

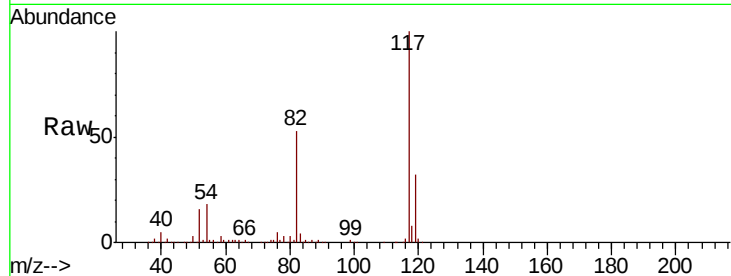




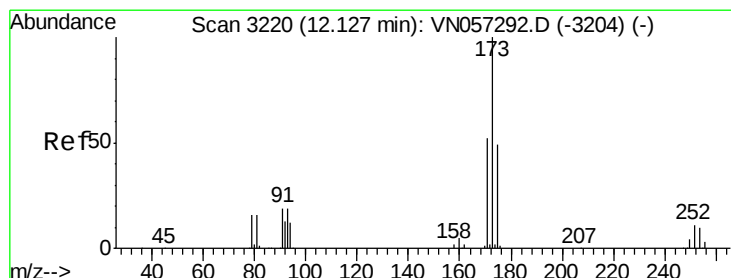
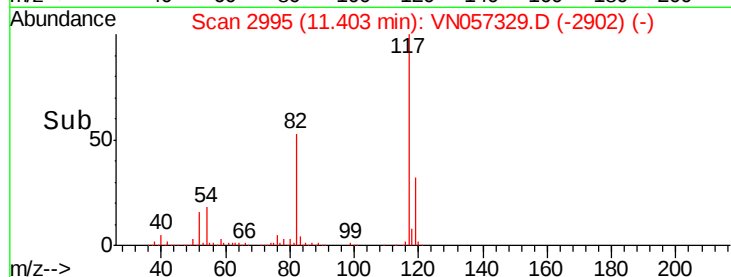
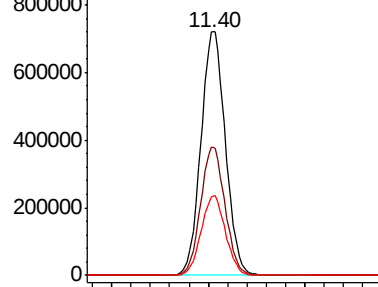
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. 0.00 min
Lab File: VN057329.D
Acq: 15 Aug 2019 14:15

Instrument :
MSVOA_N
ClientSampleId :
REACTOR-3-C1-(3)

Tgt Ion:117 Resp: 1262941
Ion Ratio Lower Upper
117 100
82 52.8 41.2 61.8
119 32.4 25.8 38.8

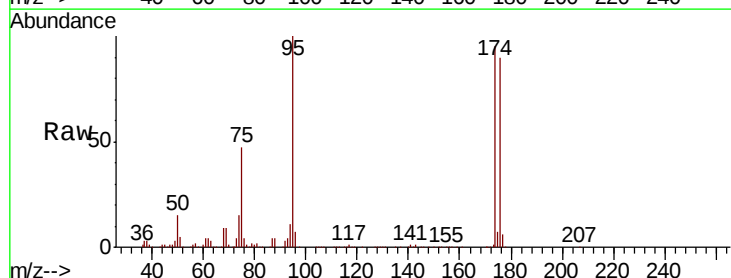


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

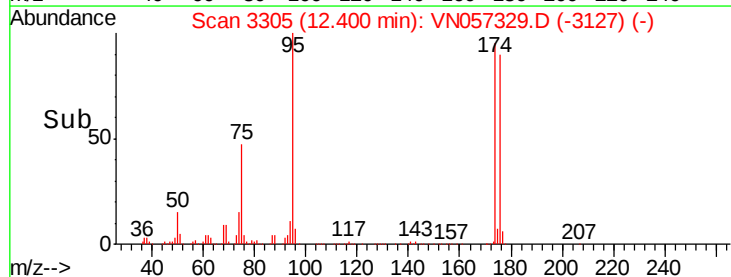
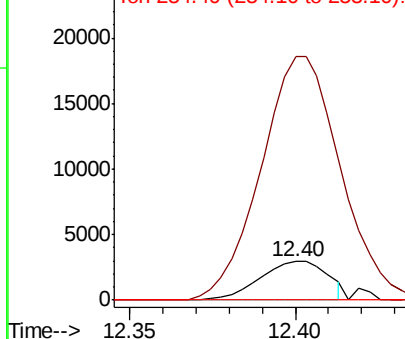


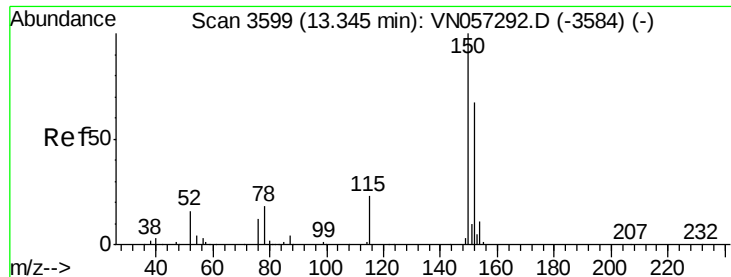
#71
Bromoform
Concen: 0.542 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN057329.D
Acq: 15 Aug 2019 14:15

Tgt Ion:173 Resp: 4216
Ion Ratio Lower Upper
173 100
175 642.0 24.2 72.6#
254 0.0 0.2 0.2#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN057329.D

Acq: 15 Aug 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-3-C1-(3)

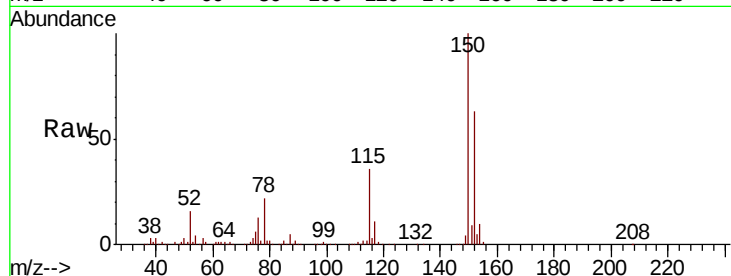
Tgt Ion:152 Resp: 321532

Ion Ratio Lower Upper

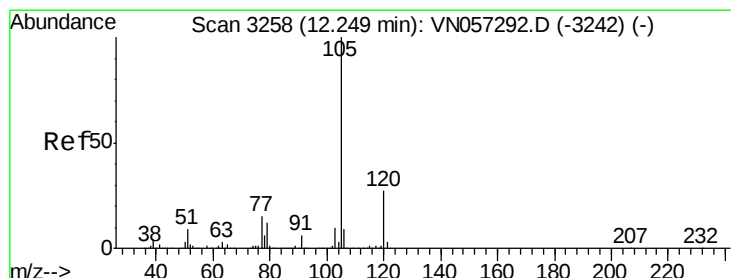
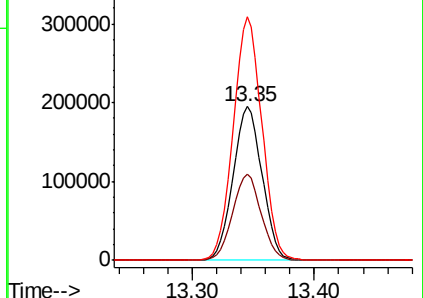
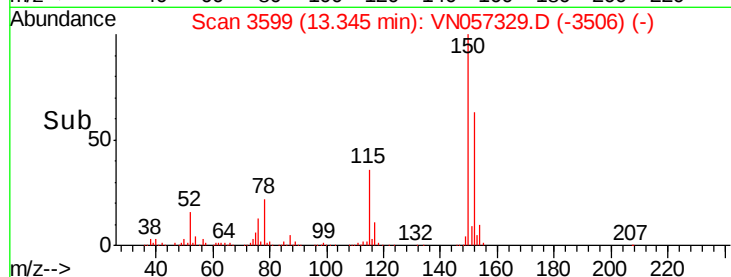
152 100

115 55.4 27.3 81.9

150 156.3 0.0 344.4



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN057329.D

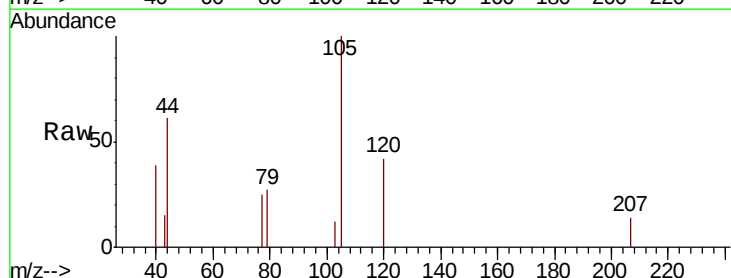
Acq: 15 Aug 2019 14:15

Tgt Ion:105 Resp: 2180

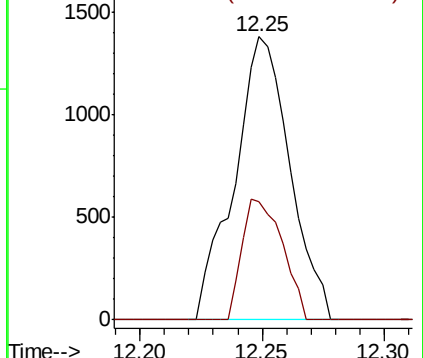
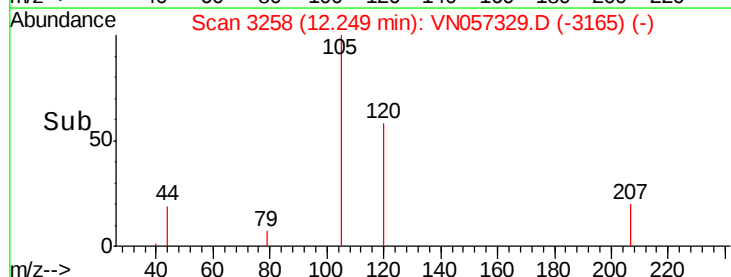
Ion Ratio Lower Upper

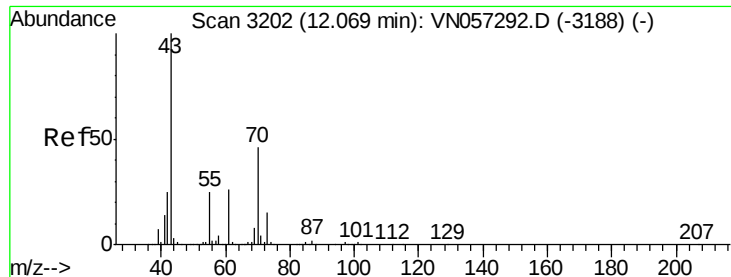
105 100

120 31.0 13.2 39.6



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#74

N-ethyl acetate

Concen: 0.205 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN057329.D

Acq: 15 Aug 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-3-C1-(3)

Tgt Ion: 43 Resp: 1916

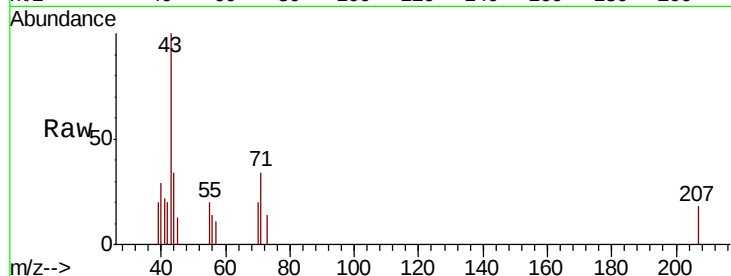
Ion Ratio Lower Upper

43 100

70 19.2 36.2 54.2#

55 37.4 20.1 30.1#

61 0.0 20.9 31.3#

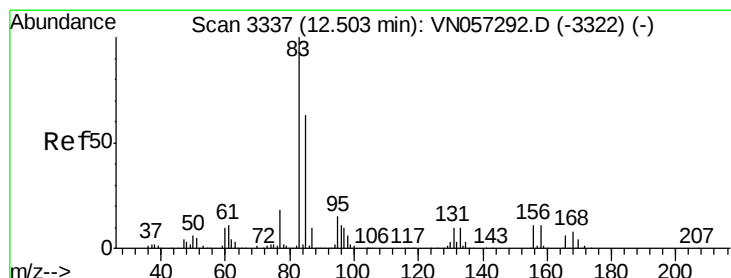
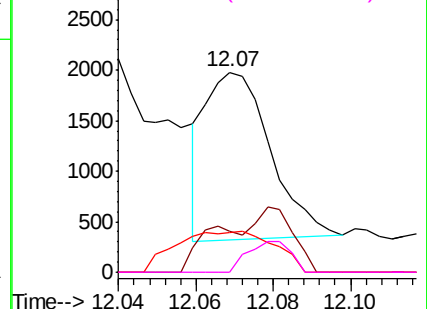
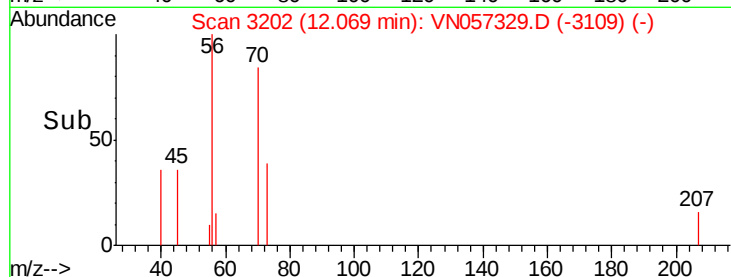


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3339

Delta R.T. 0.01 min

Lab File: VN057329.D

Acq: 15 Aug 2019 14:15

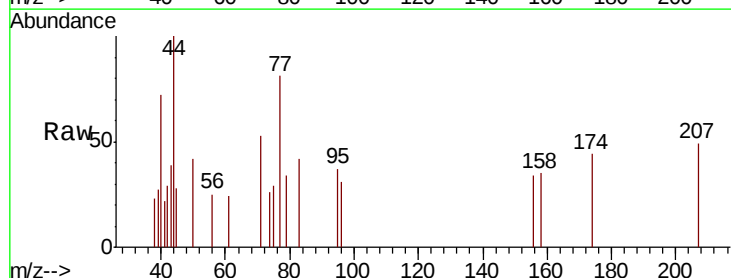
Tgt Ion: 83 Resp: 180

Ion Ratio Lower Upper

83 100

131 0.0 5.4 16.2#

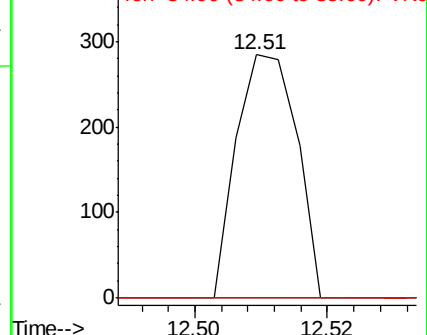
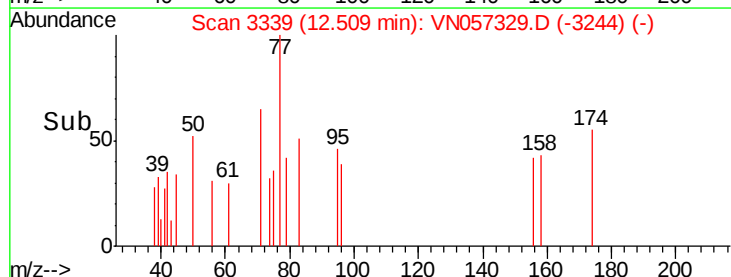
85 0.0 32.3 96.9#

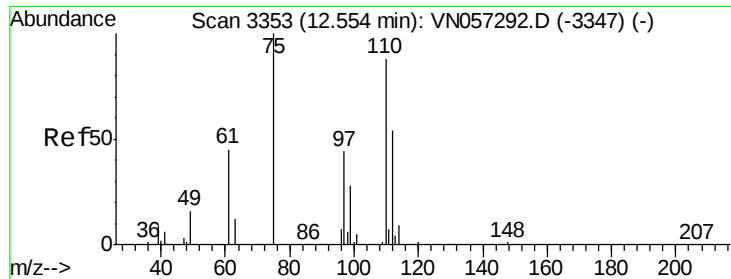


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 32.985 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN057329.D

Acq: 15 Aug 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

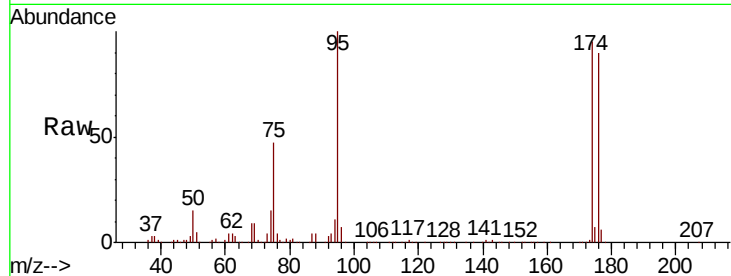
REACTOR-3-C1-(3)

Tgt Ion: 75 Resp: 212850

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN057329.D (-3305) (-)

Ion 77.00 (76.70 to 77.70): VN057329.D (-3305) (-)

12.40

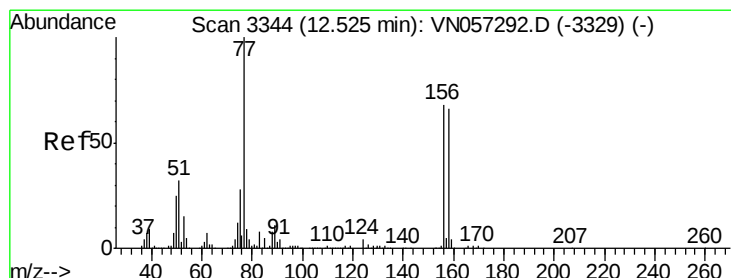
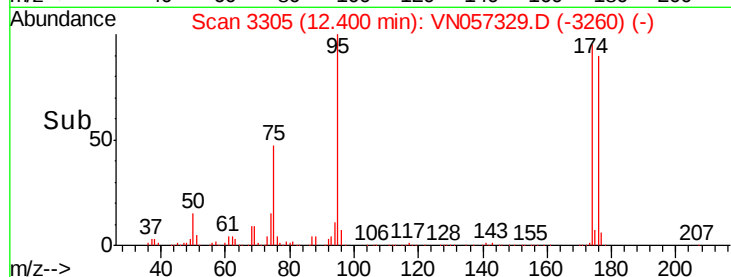
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#77

Bromobenzene

Concen: Below Cal

RT: 12.52 min Scan# 3342

Delta R.T. -0.01 min

Lab File: VN057329.D

Acq: 15 Aug 2019 14:15

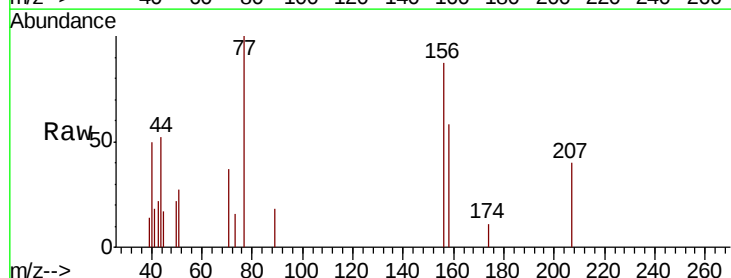
Tgt Ion: 156 Resp: 1643

Ion Ratio Lower Upper

156 100

77 149.1 89.8 269.6

158 82.0 49.3 147.8



Abundance Ion 155.80 (155.50 to 156.50): VN057329.D (-3342) (-)

Ion 77.00 (76.70 to 77.70): VN057329.D (-3342) (-)

Ion 157.80 (157.50 to 158.50): VN057329.D (-3342) (-)

2000

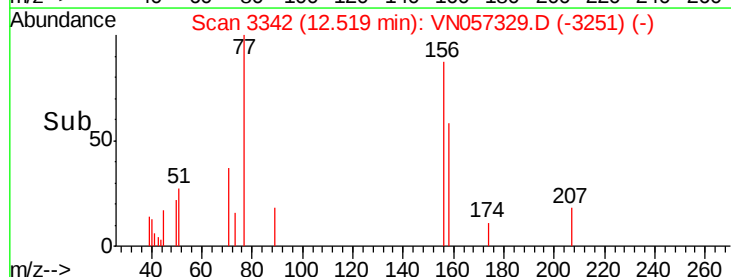
1500

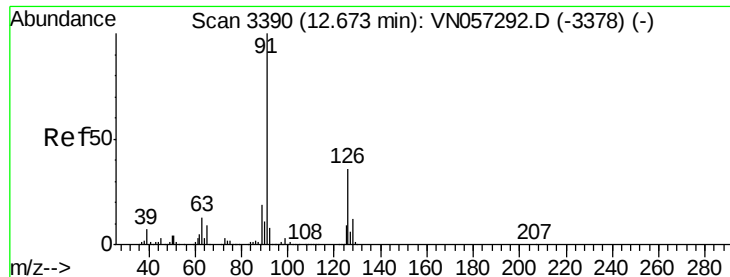
1000

500

0

Time--> 12.50 12.55





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3392

Delta R.T. 0.01 min

Lab File: VN057329.D

Acq: 15 Aug 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

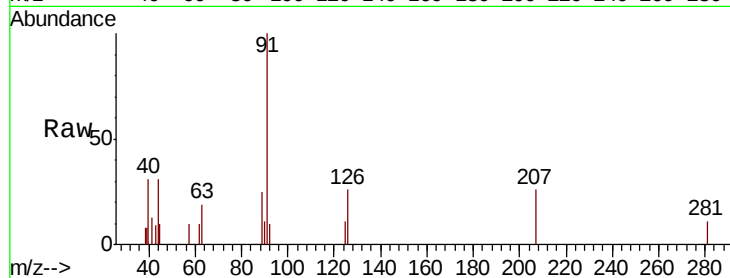
REACTOR-3-C1-(3)

Tgt Ion: 91 Resp: 3539

Ion Ratio Lower Upper

91 100

126 27.3 18.1 54.1



Abundance Ion 91.00 (90.70 to 91.70): VN057292.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN057292.D (-3378) (-)

12.68

2000

1500

1000

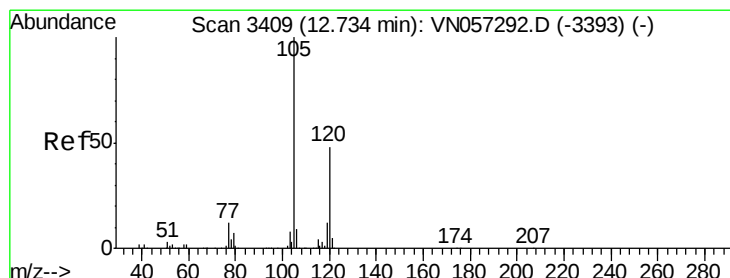
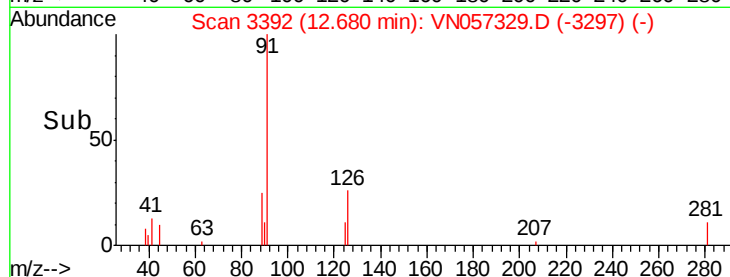
500

0

12.65

12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN057329.D

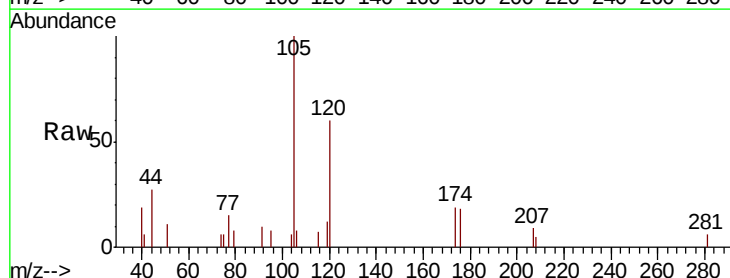
Acq: 15 Aug 2019 14:15

Tgt Ion: 105 Resp: 5316

Ion Ratio Lower Upper

105 100

120 49.0 24.3 73.0



Abundance Ion 105.00 (104.70 to 105.70): VN057292.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN057292.D (-3393) (-)

12.74

3000

2000

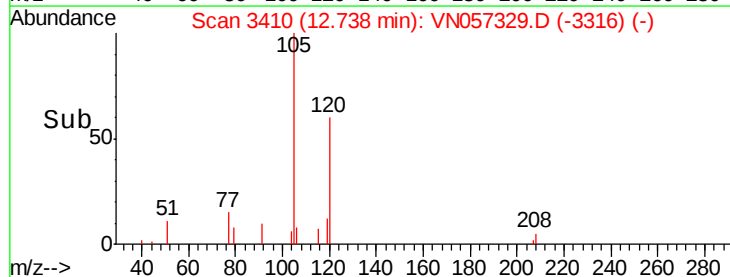
1000

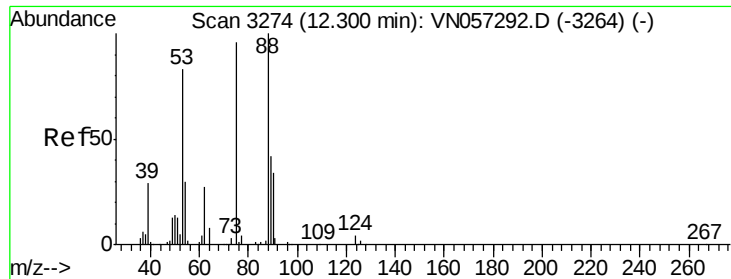
0

12.70

12.75

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 80.721 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN057329.D

Acq: 15 Aug 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-3-C1-(3)

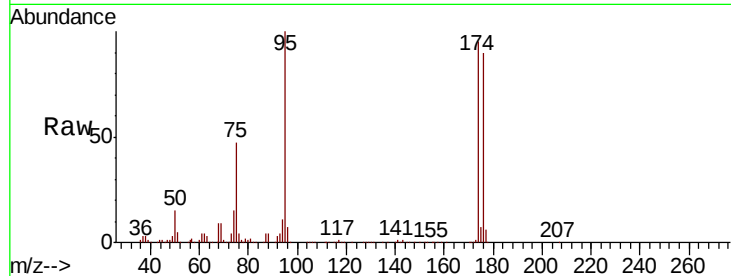
Tgt Ion: 75 Resp: 212850

Ion Ratio Lower Upper

75 100

53 0.0 67.9 101.9#

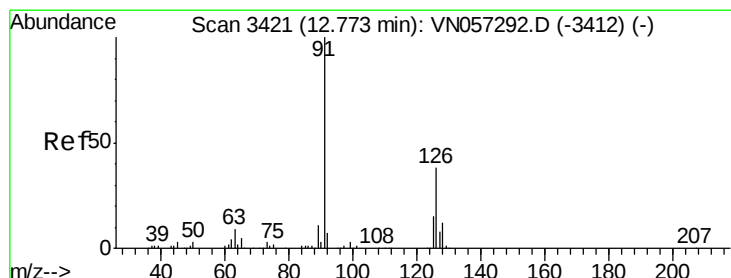
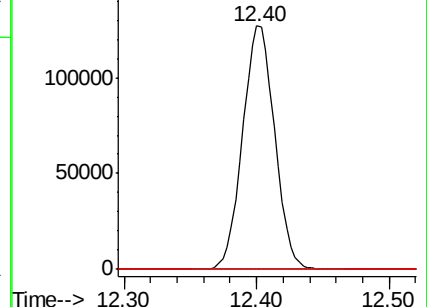
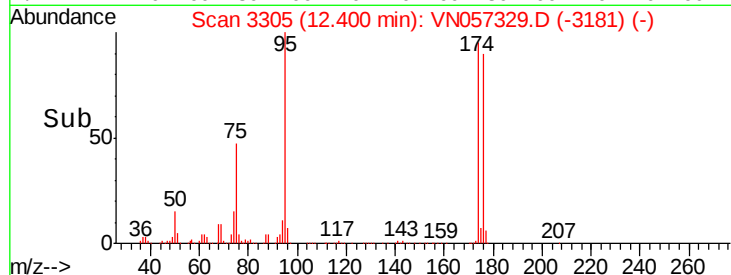
89 0.0 36.2 54.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 0.218 ug/l

RT: 12.78 min Scan# 3423

Delta R.T. 0.01 min

Lab File: VN057329.D

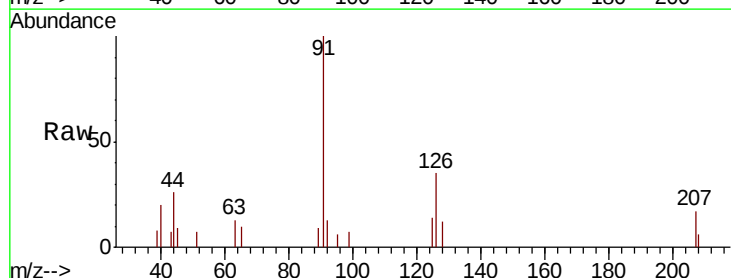
Acq: 15 Aug 2019 14:15

Tgt Ion: 91 Resp: 4007

Ion Ratio Lower Upper

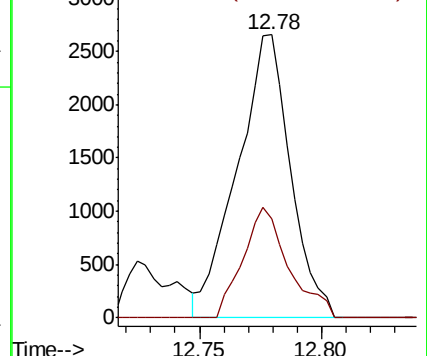
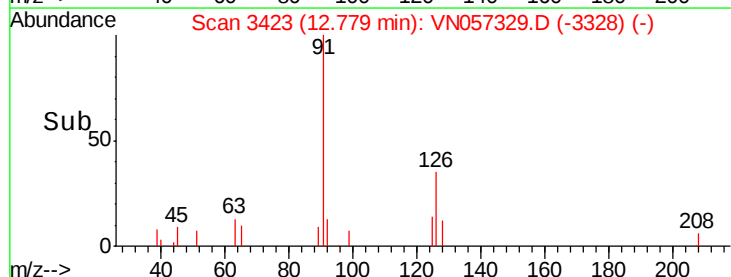
91 100

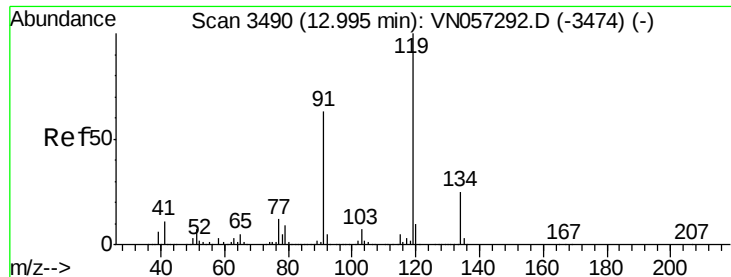
126 33.5 17.3 51.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

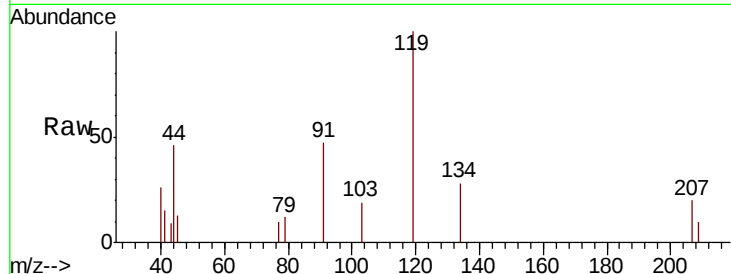




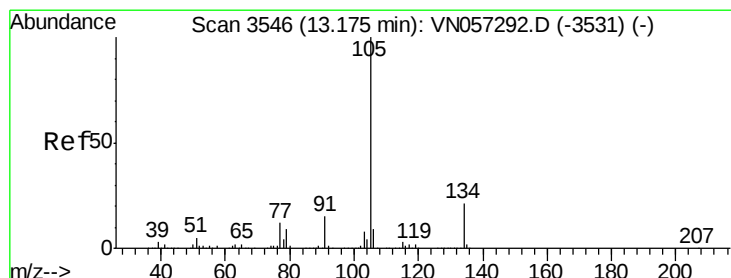
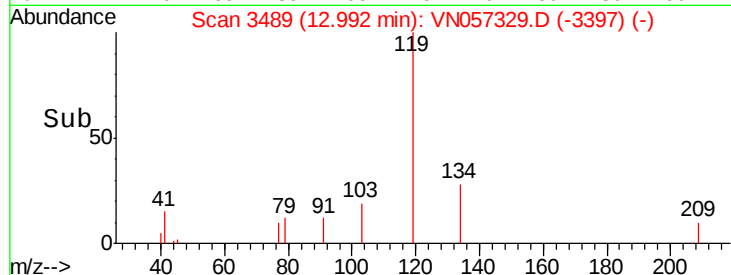
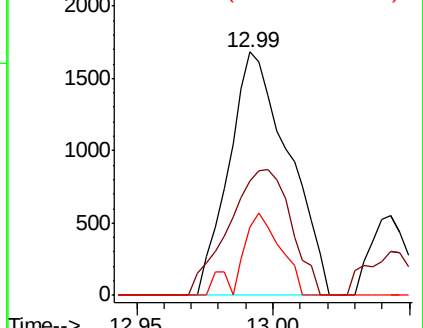
#83
tert-Butylbenzene
Concen: Below Cal
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN057329.D
Acq: 15 Aug 2019 14:15

Instrument :
MSVOA_N
ClientSampleId :
REACTOR-3-C1-(3)

Tgt Ion:119 Resp: 2559
Ion Ratio Lower Upper
119 100
91 53.9 31.3 93.8
134 22.1 13.1 39.1

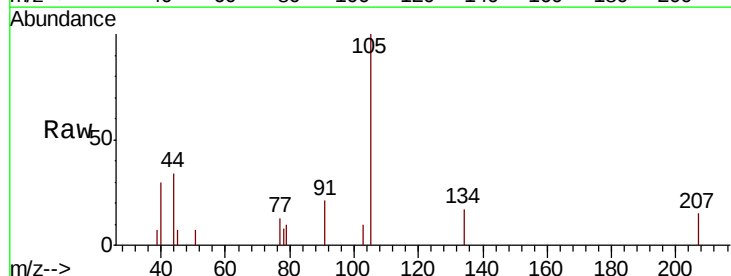


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

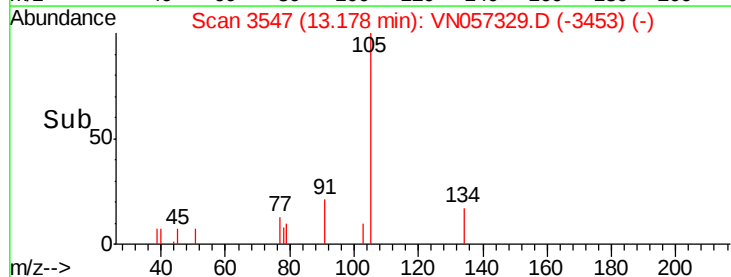
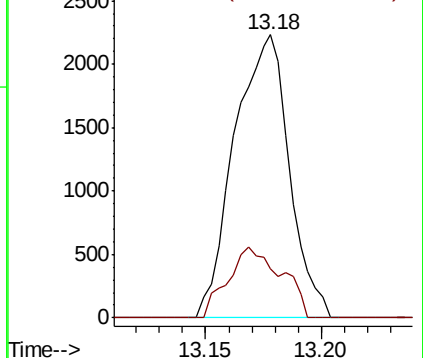


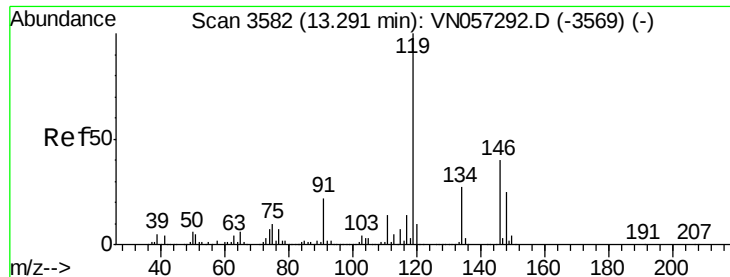
#85
sec-Butylbenzene
Concen: Below Cal
RT: 13.18 min Scan# 3547
Delta R.T. 0.00 min
Lab File: VN057329.D
Acq: 15 Aug 2019 14:15

Tgt Ion:105 Resp: 3662
Ion Ratio Lower Upper
105 100
134 24.5 10.4 31.2



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 134.00 (133.70 to 134.70): V

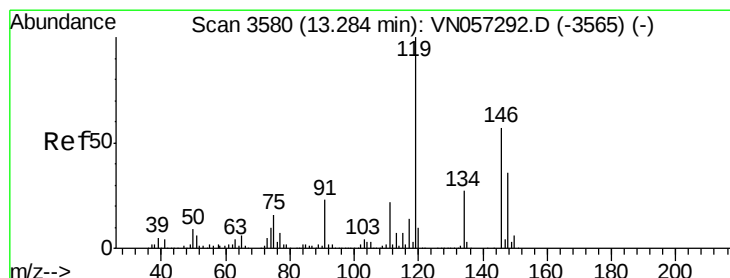
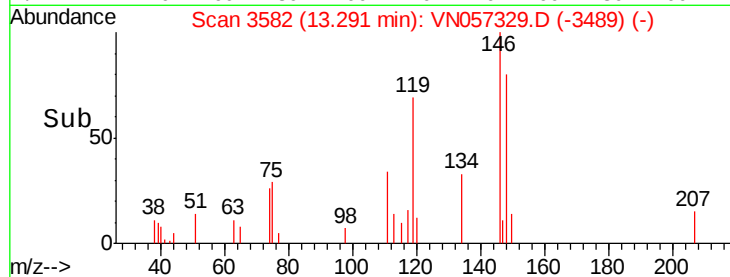
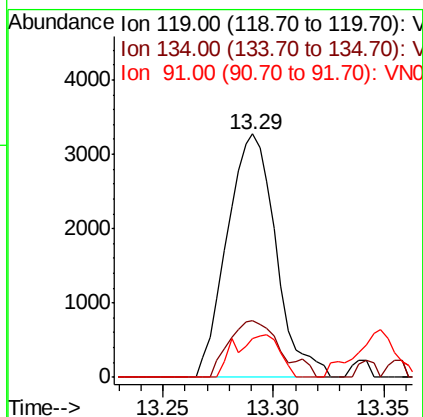
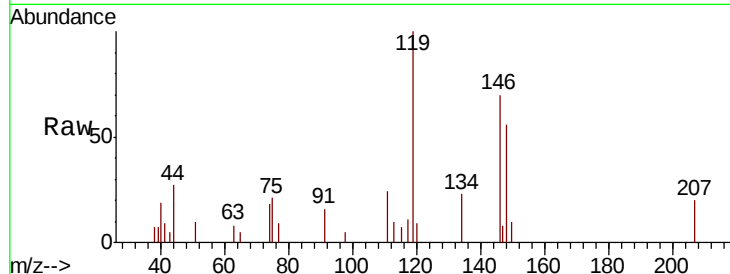




#86
p-Isopropyltoluene
Concen: 0.211 ug/l
RT: 13.29 min Scan# 3582
Delta R.T. 0.00 min
Lab File: VN057329.D
Acq: 15 Aug 2019 14:15

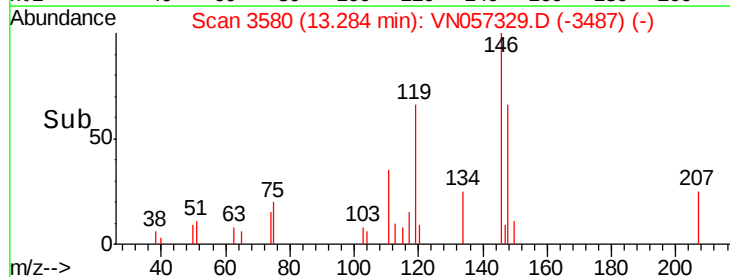
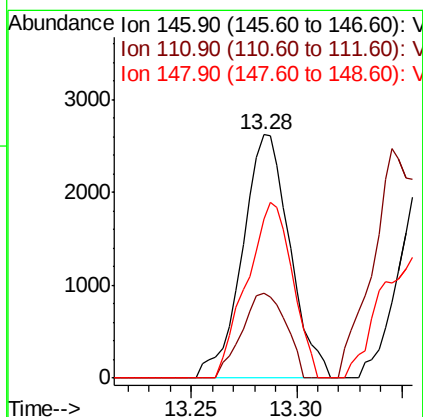
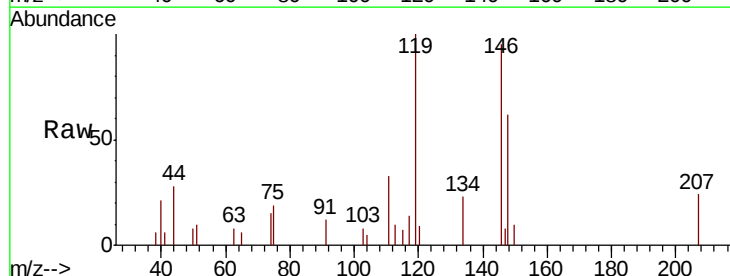
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-3-C1-(3)

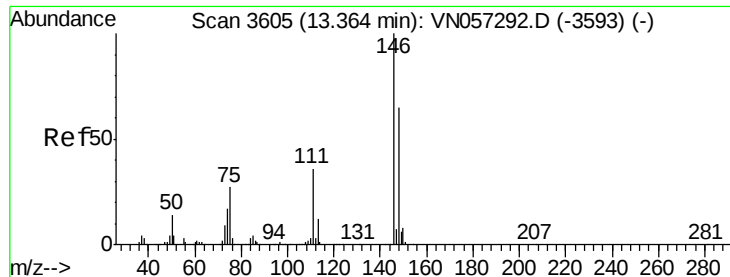
Tgt Ion:119 Resp: 5008
Ion Ratio Lower Upper
119 100
134 24.5 13.4 40.2
91 15.9 11.2 33.5



#87
1,3-Dichlorobenzene
Concen: 0.364 ug/l
RT: 13.28 min Scan# 3580
Delta R.T. 0.00 min
Lab File: VN057329.D
Acq: 15 Aug 2019 14:15

Tgt Ion:146 Resp: 4098
Ion Ratio Lower Upper
146 100
111 32.5 18.7 56.1
148 69.4 31.7 95.1





#88

1,4-Dichlorobenzene

Concen: 0.383 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.08 min

Lab File: VN057329.D

Acq: 15 Aug 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-3-C1-(3)

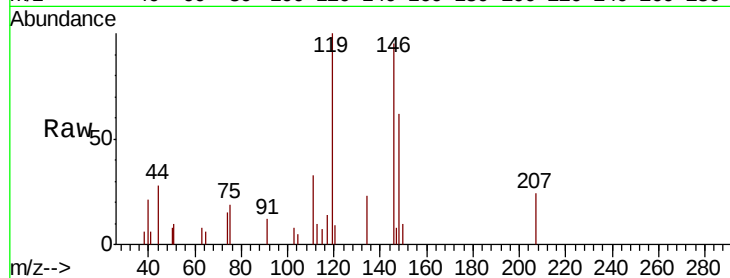
Tgt Ion:146 Resp: 4098

Ion Ratio Lower Upper

146 100

111 32.5 18.4 55.4

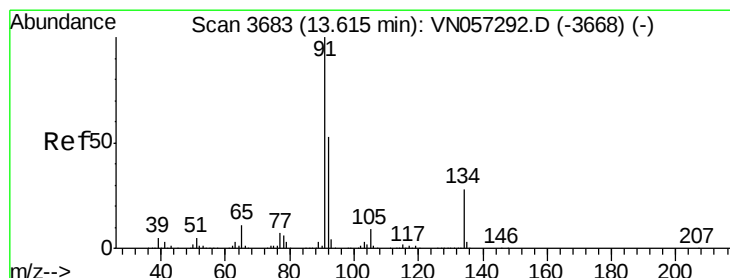
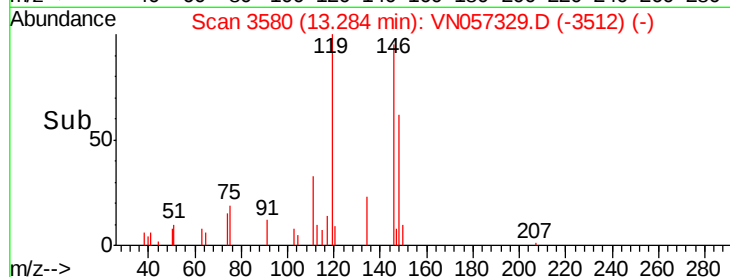
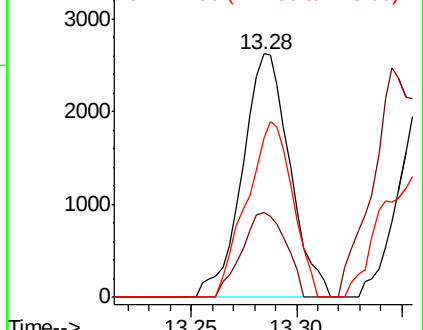
148 69.4 32.5 97.4



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



#89

n-Butylbenzene

Concen: 0.373 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN057329.D

Acq: 15 Aug 2019 14:15

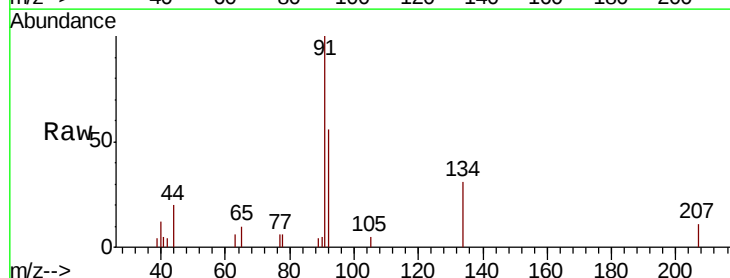
Tgt Ion: 91 Resp: 6304

Ion Ratio Lower Upper

91 100

92 54.0 26.2 78.6

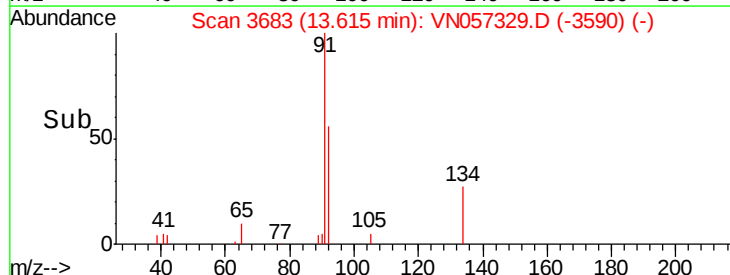
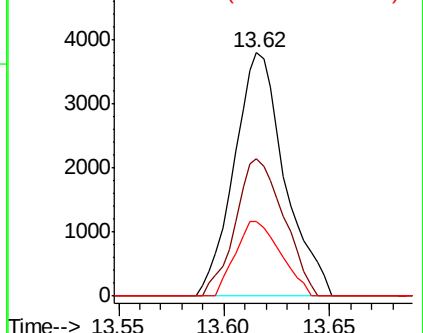
134 27.4 13.9 41.7

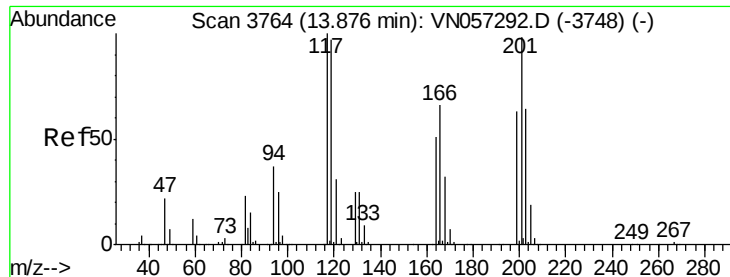


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: Below Cal

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN057329.D

Acq: 15 Aug 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

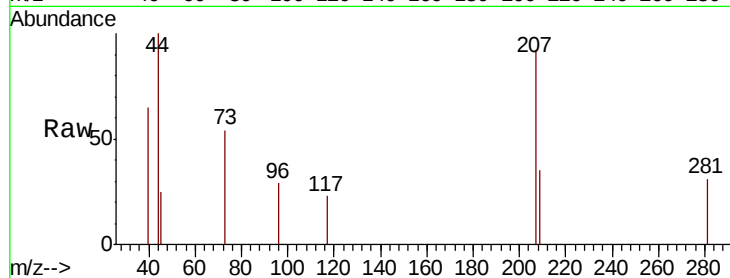
REACTOR-3-C1-(3)

Tgt Ion:117 Resp: 30

Ion Ratio Lower Upper

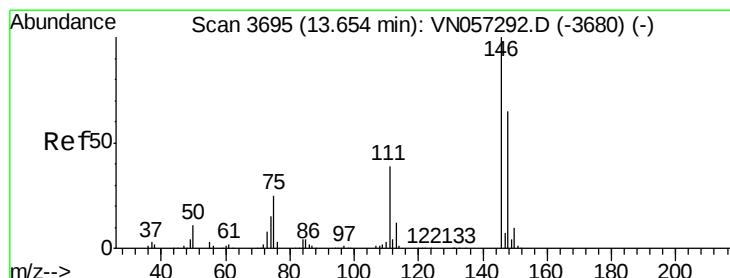
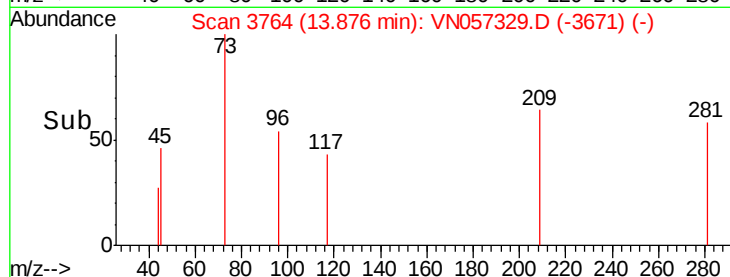
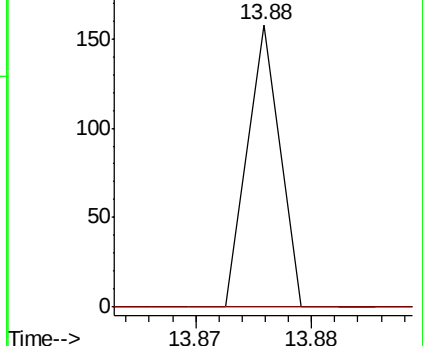
117 100

201 0.0 48.4 145.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#91

1,2-Dichlorobenzene

Concen: 0.453 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN057329.D

Acq: 15 Aug 2019 14:15

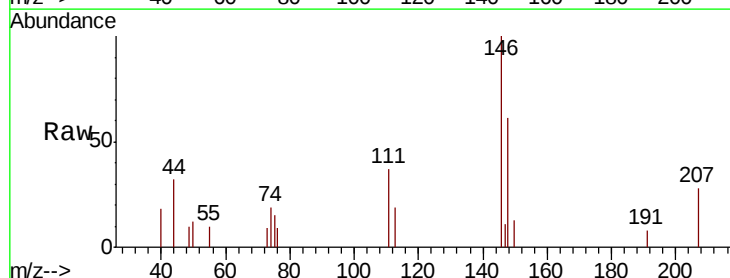
Tgt Ion:146 Resp: 4756

Ion Ratio Lower Upper

146 100

111 38.3 19.7 59.1

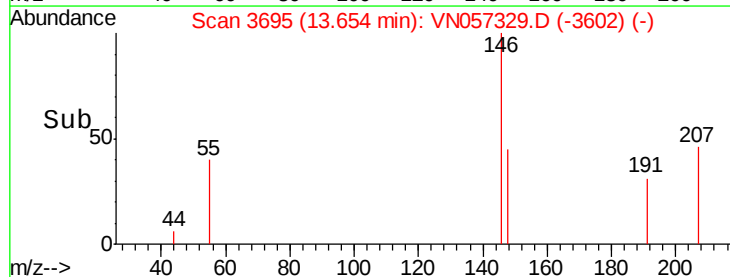
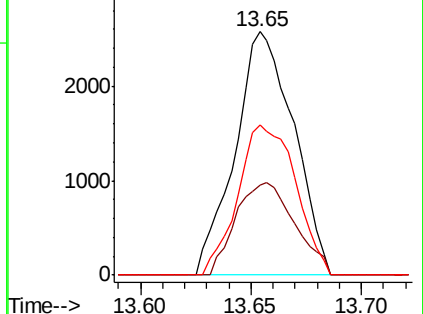
148 60.7 32.0 96.0

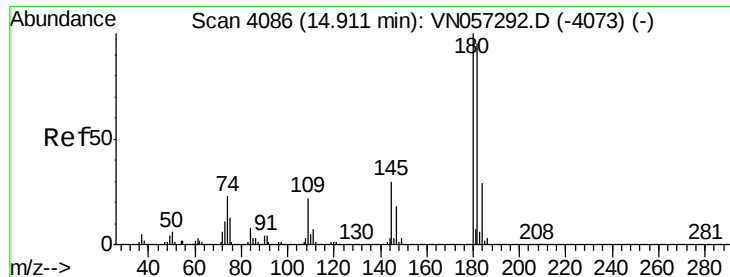


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

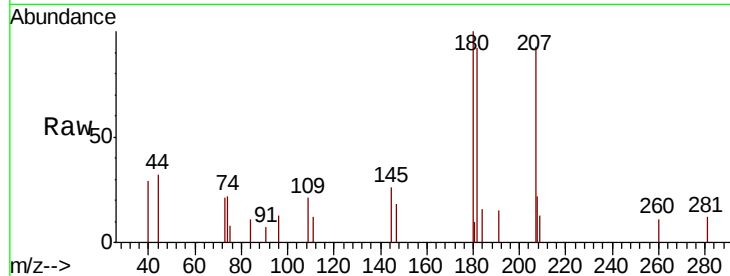




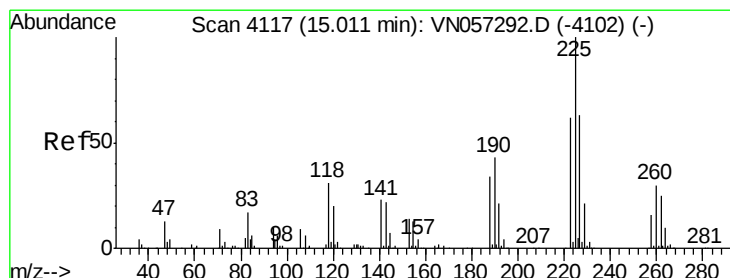
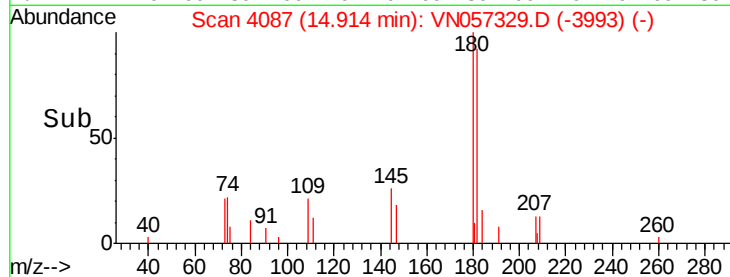
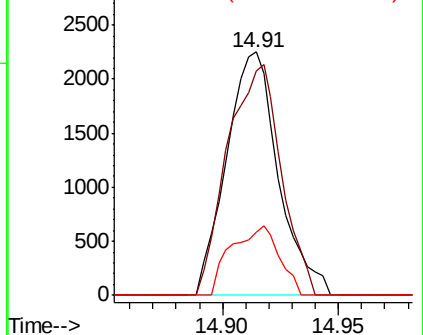
#93
 1,2,4-Trichlorobenzene
 Concen: 6.101 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN057329.D
 Acq: 15 Aug 2019 14:15

Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-3-C1-(3)

Tgt Ion:180 Resp: 3503
 Ion Ratio Lower Upper
 180 100
 182 98.1 48.0 144.2
 145 26.2 14.5 43.6

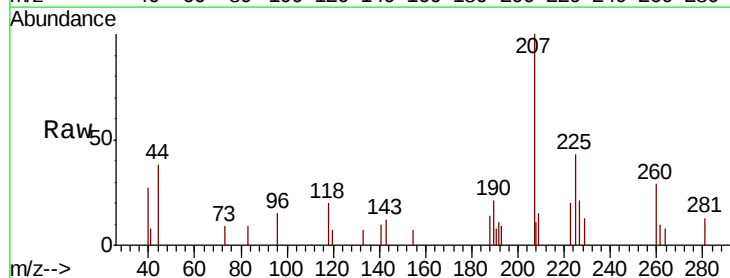


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

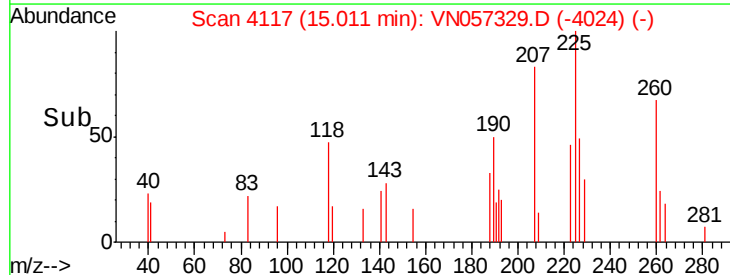
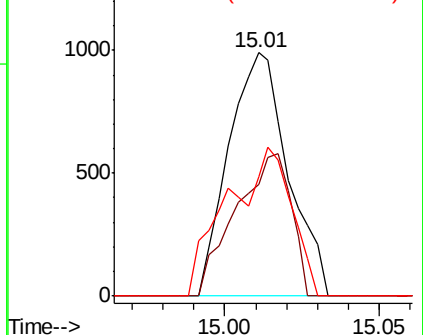


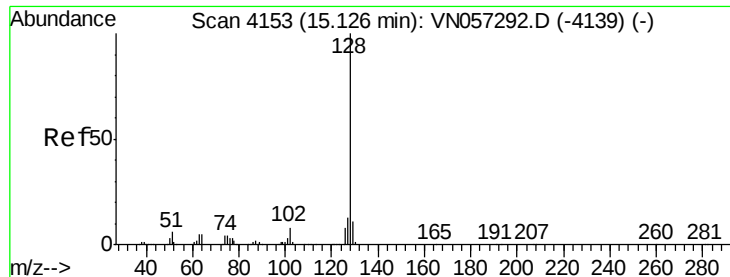
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN057329.D
 Acq: 15 Aug 2019 14:15

Tgt Ion:225 Resp: 1324
 Ion Ratio Lower Upper
 225 100
 223 54.3 30.7 92.1
 227 66.1 30.9 92.7



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.01 min

Lab File: VN057329.D

Acq: 15 Aug 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-3-C1-(3)

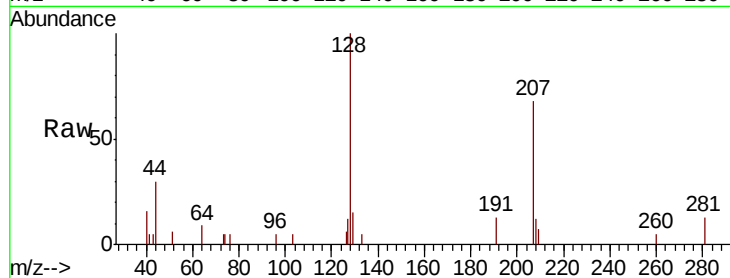
Tgt Ion:128 Resp: 5792

Ion Ratio Lower Upper

128 100

127 10.3 10.5 15.7#

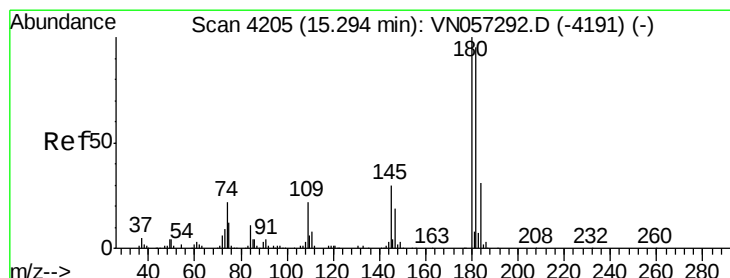
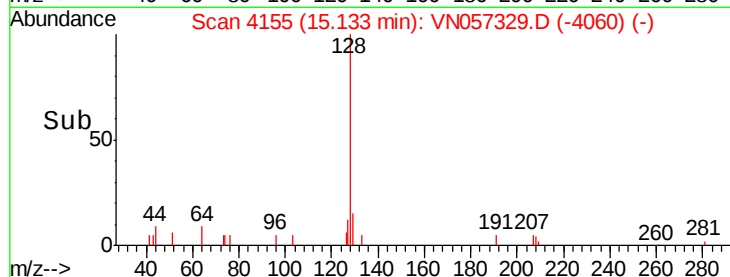
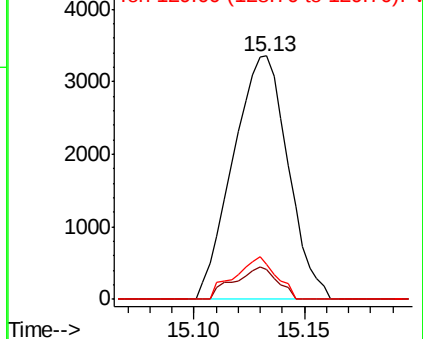
129 13.1 8.8 13.2



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



#96

1,2,3-Trichlorobenzene

Concen: Below Cal

RT: 15.29 min Scan# 4205

Delta R.T. 0.00 min

Lab File: VN057329.D

Acq: 15 Aug 2019 14:15

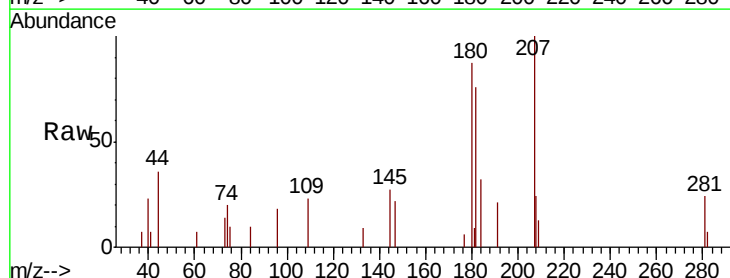
Tgt Ion:180 Resp: 3938

Ion Ratio Lower Upper

180 100

182 96.3 47.9 143.6

145 30.4 15.1 45.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

