

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091620\
 Data File : VN063399.D
 Acq On : 17 Sep 2020 5:51
 Operator : JC/MD
 Sample : L4015-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-6E-(A-4)

Quant Time: Sep 17 06:38:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	225711	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	427101	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	422051	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	180893	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	191453	49.83	ug/l	0.00
Spiked Amount			Recovery	=	99.66%	
35) Dibromofluoromethane	7.55	113	140471	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	
50) Toluene-d8	10.06	98	560688	50.43	ug/l	0.00
Spiked Amount			Recovery	=	100.86%	
62) 4-Bromofluorobenzene	12.38	95	215099	52.78	ug/l	0.00
Spiked Amount			Recovery	=	105.56%	

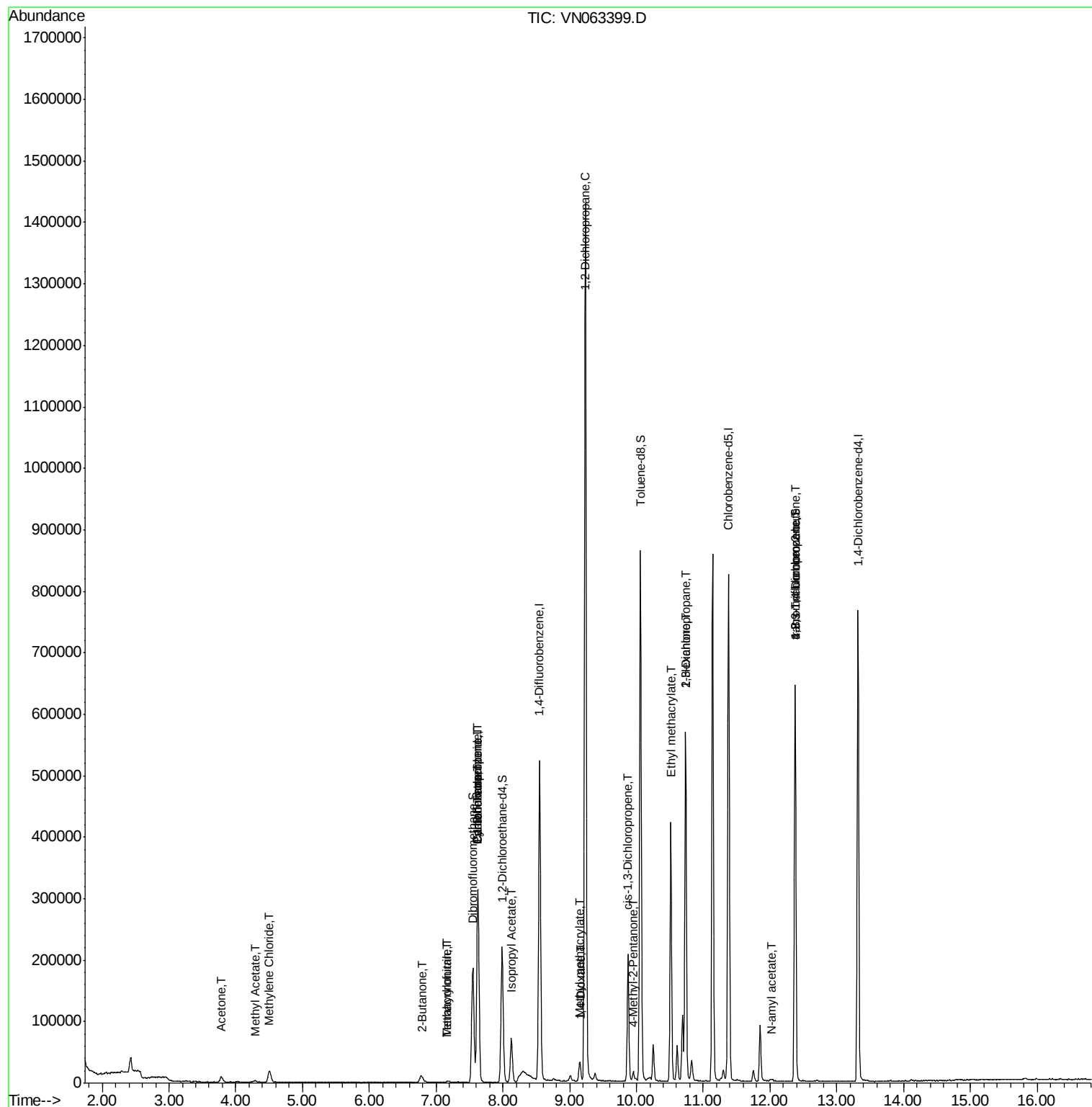
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	16815	13.617	ug/l	99
18) Methyl Acetate	4.29	43	5917	1.888	ug/l #	65
20) Methylene Chloride	4.51	84	13403	4.284	ug/l	87
25) 2-Butanone	6.80	43	3360	1.769	ug/l	94
29) Tetrahydrofuran	7.16	42	681	0.525	ug/l #	67
31) Cyclohexane	7.63	56	6659	1.255	ug/l #	26
36) 1,1-Dichloropropene	7.63	75	21935	4.821	ug/l #	50
38) Carbon Tetrachloride	7.63	117	25904	5.577	ug/l #	17
41) Methacrylonitrile	7.16	41	432	0.215	ug/l #	100
43) Isopropyl Acetate	8.13	43	88203	11.046	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1793	0.507	ug/l #	43
48) Methyl methacrylate	9.14	41	5367	1.368	ug/l #	15
49) 1,4-Dioxane	9.17	88	64	1.137	ug/l #	20
51) 4-Methyl-2-Pentanone	9.95	43	9375	2.097	ug/l	91
54) cis-1,3-Dichloropropene	9.87	75	34718	6.104	ug/l #	66
56) Ethyl methacrylate	10.52	69	1322	0.273	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	5138	0.919	ug/l #	42
59) 2-Hexanone	10.74	43	88913	27.453	ug/l #	54
74) N-amyl acetate	12.01	43	3565	0.520	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	123297	27.538	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	123297	75.499	ug/l #	7

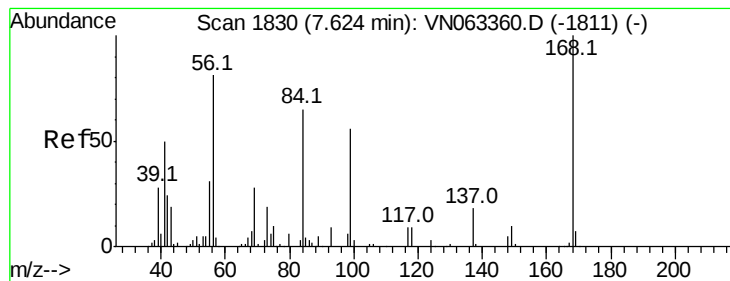
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091620\
Data File : VN063399.D
Acq On : 17 Sep 2020 5:51
Operator : JC/MD
Sample : L4015-08
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 49 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(A-4)

Quant Time: Sep 17 06:38:53 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 16 13:05:20 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063399.D

Acq: 17 Sep 2020 5:51

Instrument :

MSVOA_N

ClientSampleId :

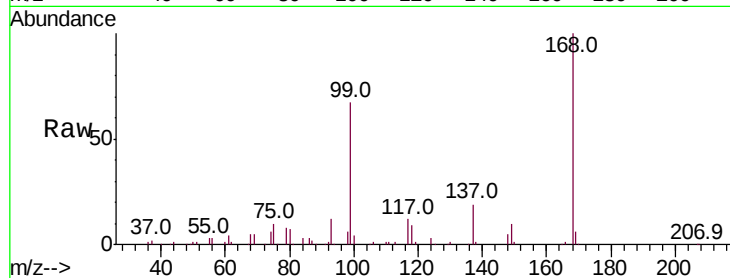
REACTOR-6E-(A-4)

Tot Ion:168 Resp: 225711

Ion Ratio Lower Upper

168 100

99 67.2 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

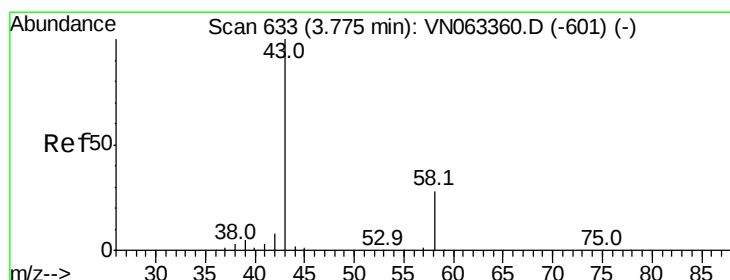
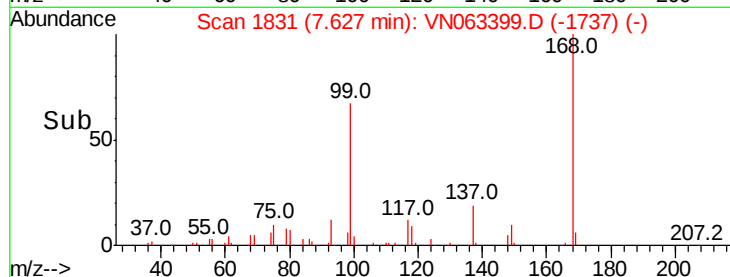
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 13.617 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063399.D

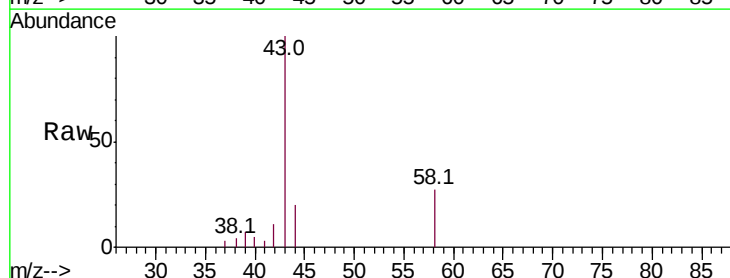
Acq: 17 Sep 2020 5:51

Tgt Ion: 43 Resp: 16815

Ion Ratio Lower Upper

43 100

58 27.4 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

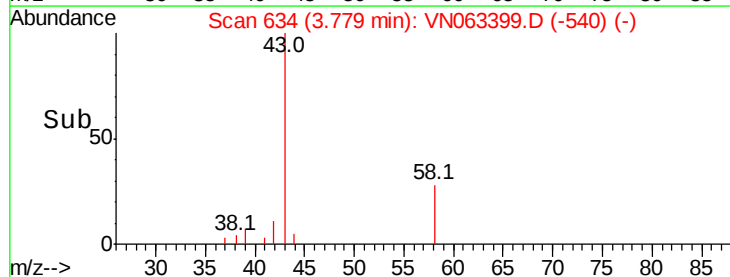
6000

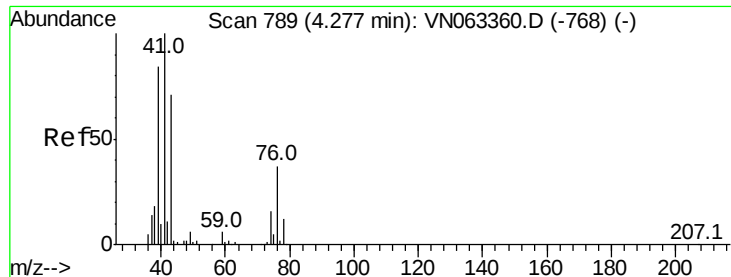
4000

2000

0

Time--> 3.70 3.75 3.80 3.85

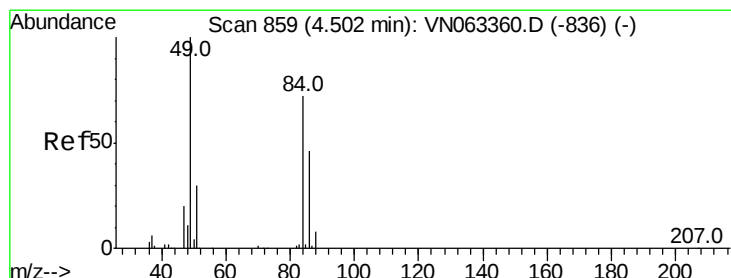
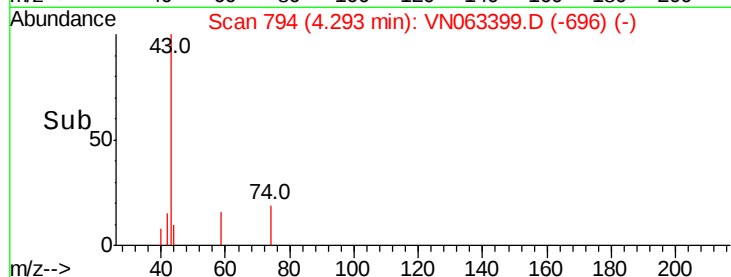
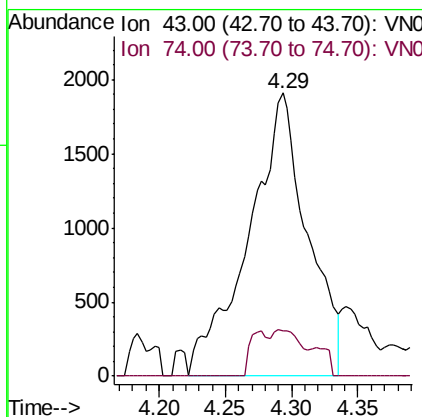
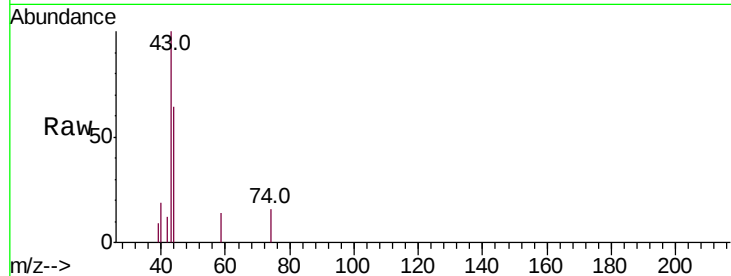




#18
Methyl Acetate
Concen: 1.888 ug/l
RT: 4.29 min Scan# 794
Delta R.T. 0.02 min
Lab File: VN063399.D
Acq: 17 Sep 2020 5:51

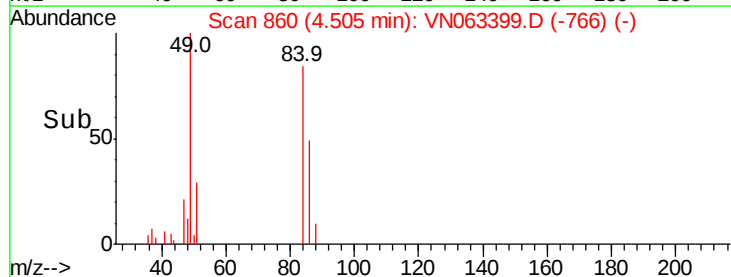
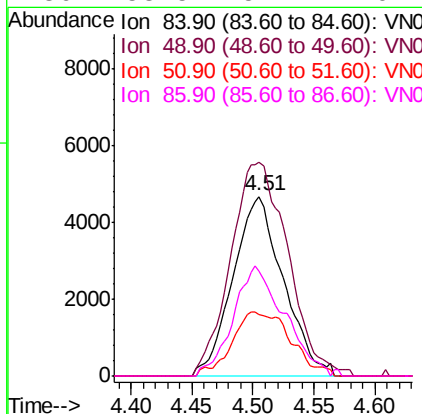
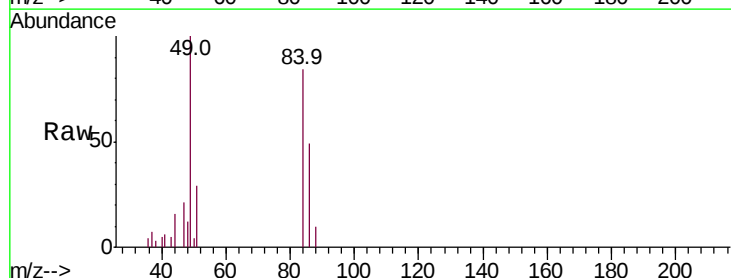
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(A-4)

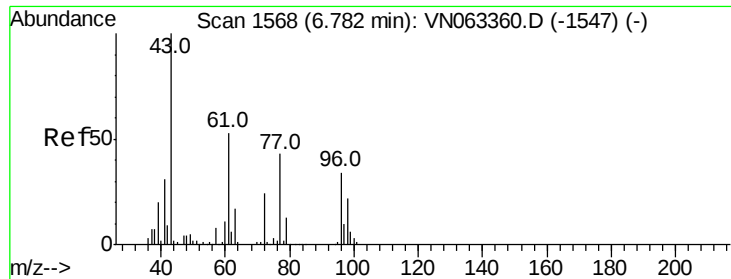
Tot Ion: 43 Resp: 5917
Ion Ratio Lower Upper
43 100
74 5.2 17.4 26.2#



#20
Methylene Chloride
Concen: 4.284 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063399.D
Acq: 17 Sep 2020 5:51

Tgt Ion: 84 Resp: 13403
Ion Ratio Lower Upper
84 100
49 119.0 110.7 166.1
51 34.3 32.9 49.3
86 58.5 51.1 76.7

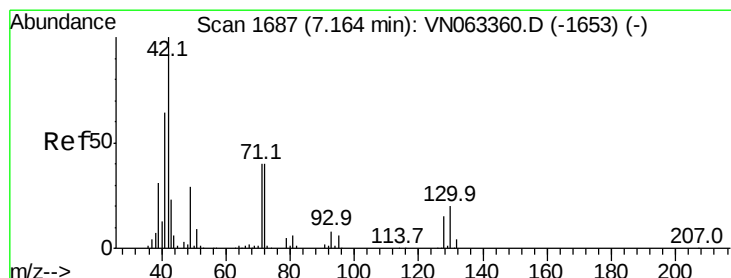
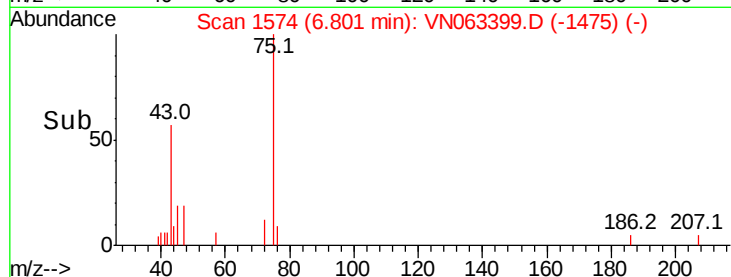
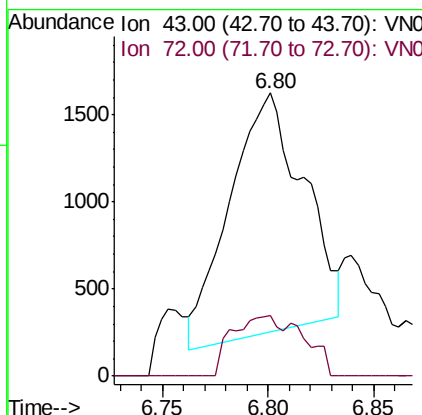
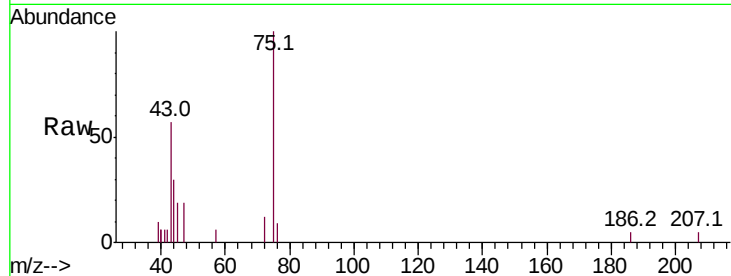




#25
 2-Butanone
 Concen: 1.769 ug/l
 RT: 6.80 min Scan# 1574
 Delta R.T. 0.02 min
 Lab File: VN063399.D
 Acq: 17 Sep 2020 5:51

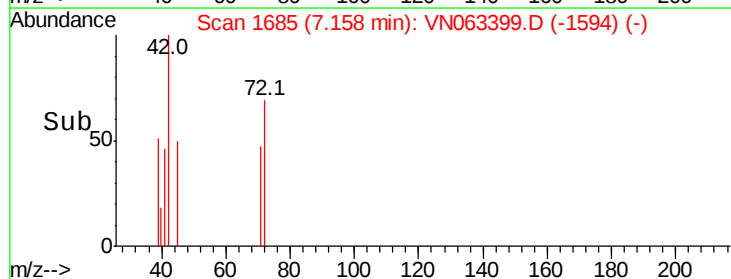
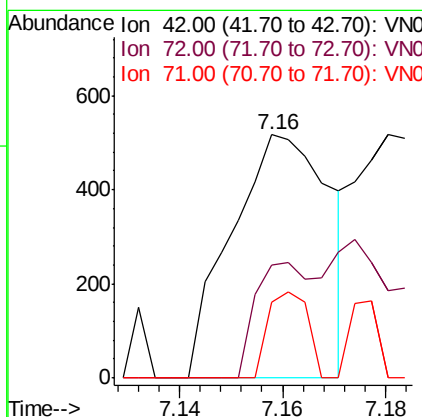
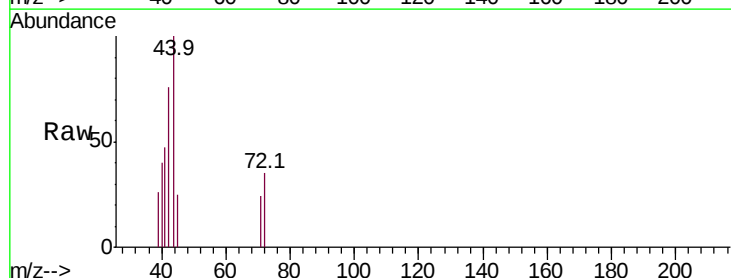
Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-6E-(A-4)

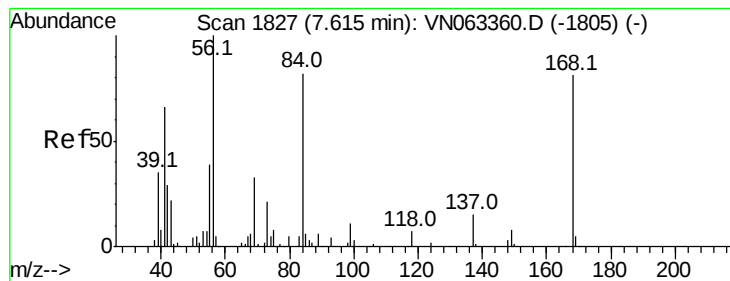
Tot Ion: 43 Resp: 3360
 Ion Ratio Lower Upper
 43 100
 72 27.1 19.2 28.8



#29
 Tetrahydrofuran
 Concen: 0.525 ug/l
 RT: 7.16 min Scan# 1685
 Delta R.T. -0.01 min
 Lab File: VN063399.D
 Acq: 17 Sep 2020 5:51

Tgt Ion: 42 Resp: 681
 Ion Ratio Lower Upper
 42 100
 72 24.7 32.1 48.1#
 71 14.2 31.2 46.8#





#31

Cyclohexane

Concen: 1.255 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063399.D

Acq: 17 Sep 2020 5:51

Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(A-4)

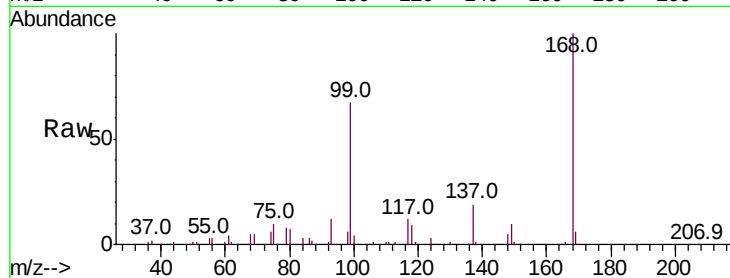
Tot Ion: 56 Resp: 6659

Ion Ratio Lower Upper

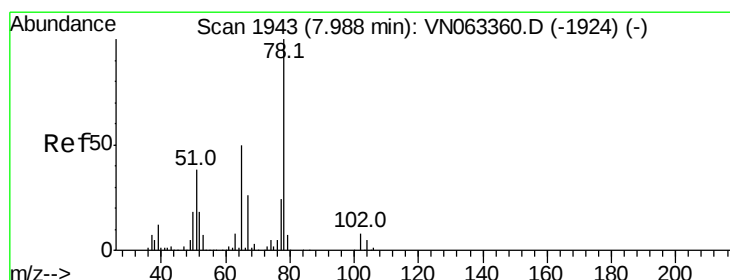
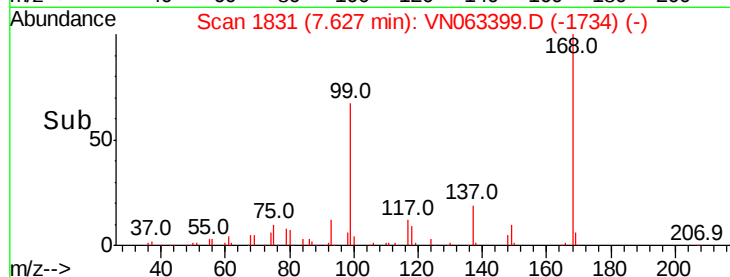
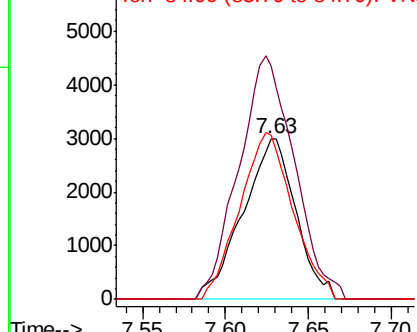
56 100

69 145.6 26.1 39.1#

84 102.1 65.4 98.2#



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: 49.829 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063399.D

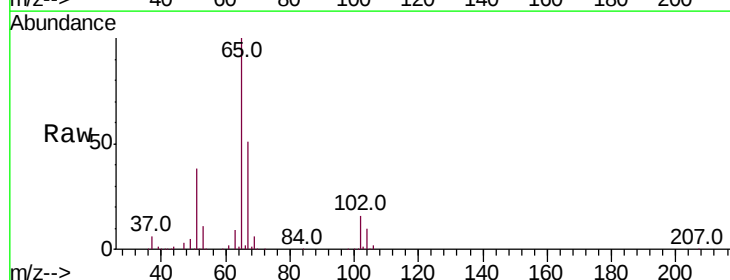
Acq: 17 Sep 2020 5:51

Tgt Ion: 65 Resp: 191453

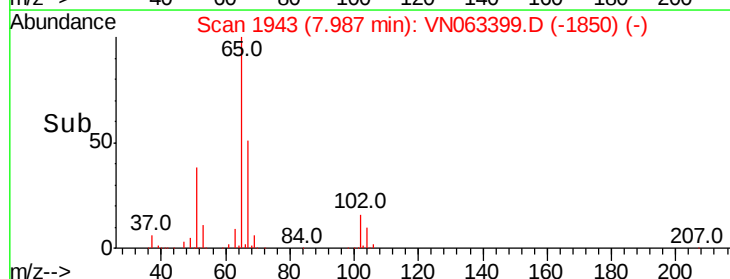
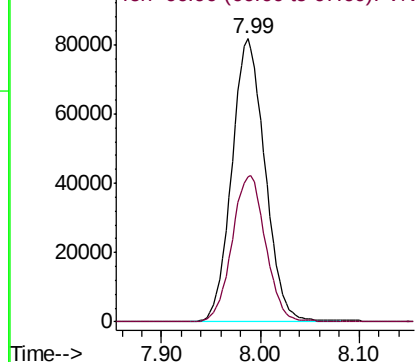
Ion Ratio Lower Upper

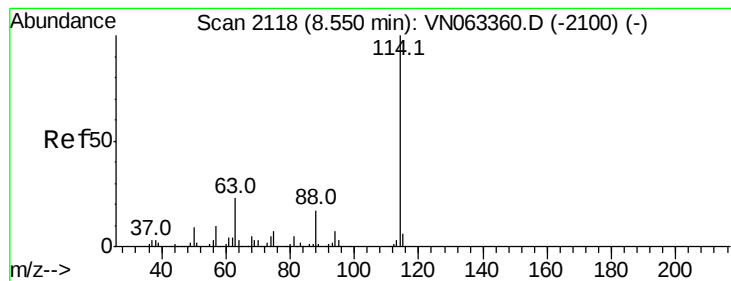
65 100

67 52.1 0.0 104.2



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: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063399.D

Acq: 17 Sep 2020 5:51

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(A-4)

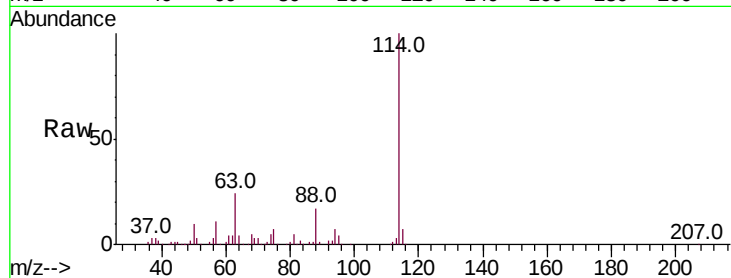
Tot Ion:114 Resp: 427101

Ion Ratio Lower Upper

114 100

63 24.1 0.0 46.4

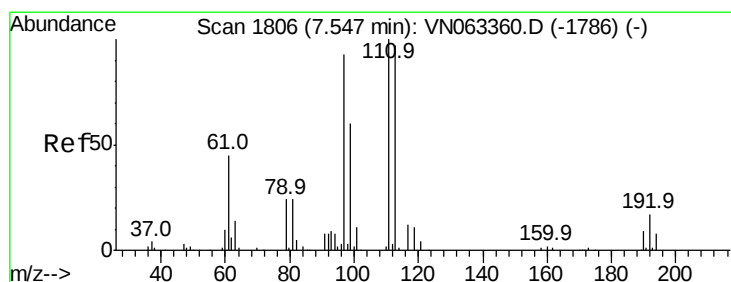
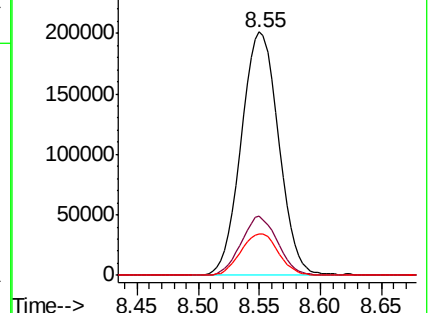
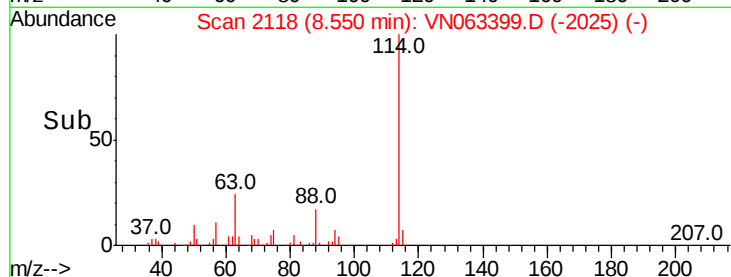
88 17.2 0.0 33.2



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: 47.509 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063399.D

Acq: 17 Sep 2020 5:51

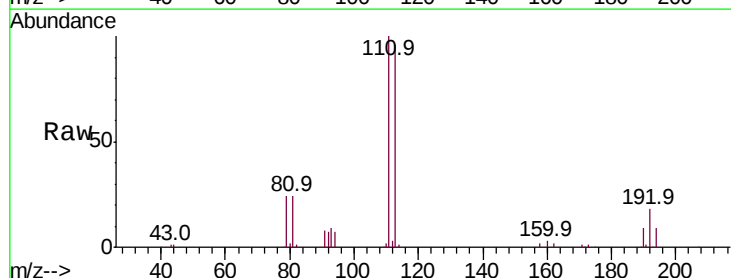
Tgt Ion:113 Resp: 140471

Ion Ratio Lower Upper

113 100

111 102.2 82.9 124.3

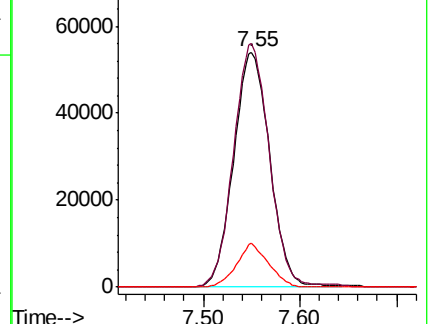
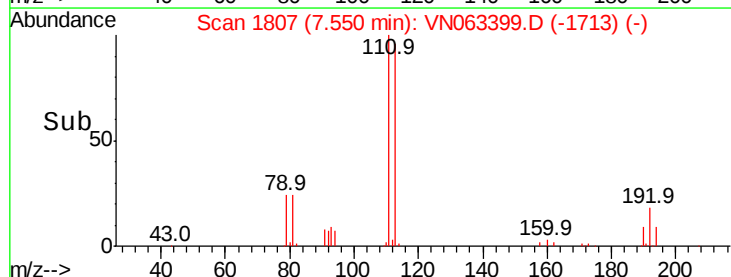
192 16.4 13.9 20.9

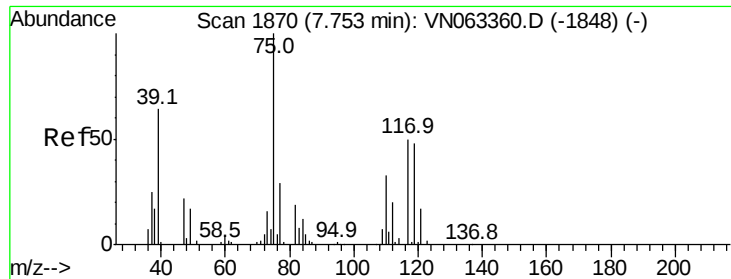


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

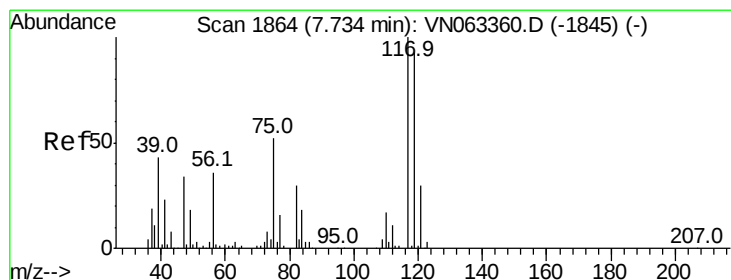
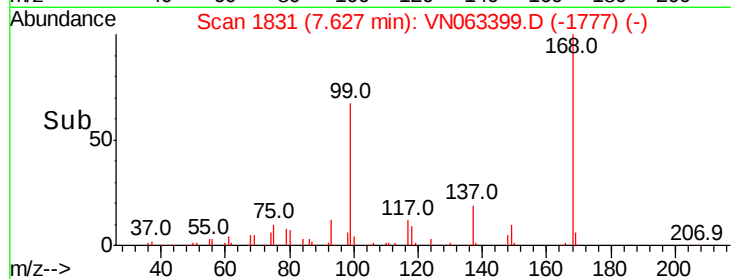
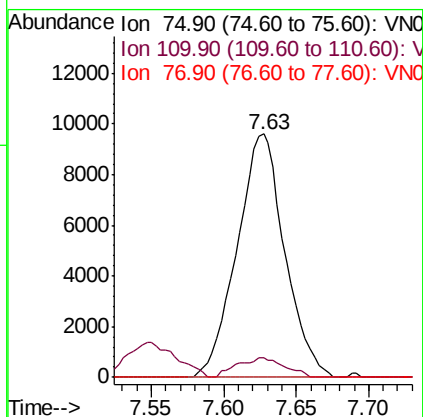
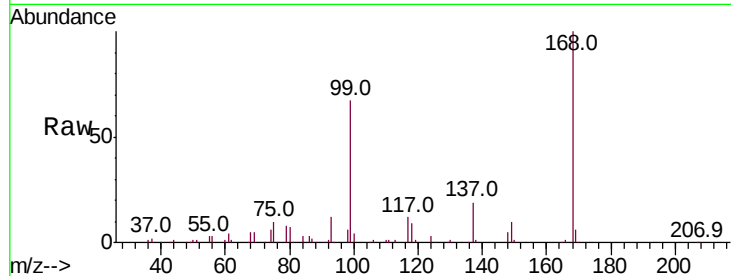




#36
 1,1-Dichloropropene
 Concen: 4.821 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063399.D
 Acq: 17 Sep 2020 5:51

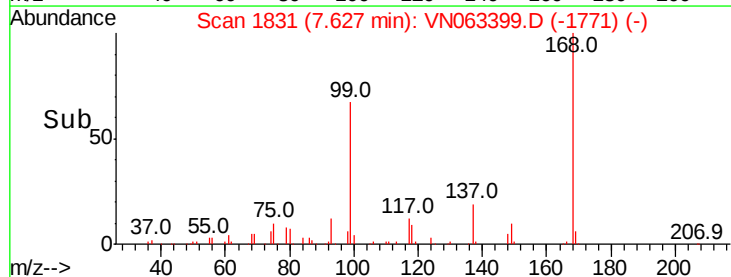
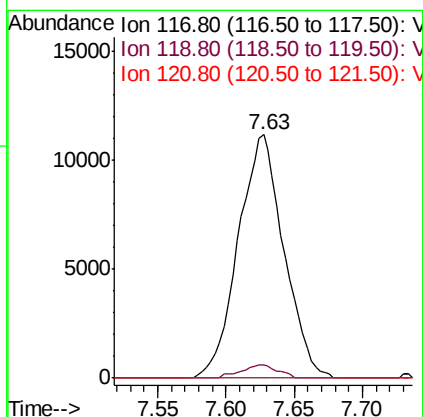
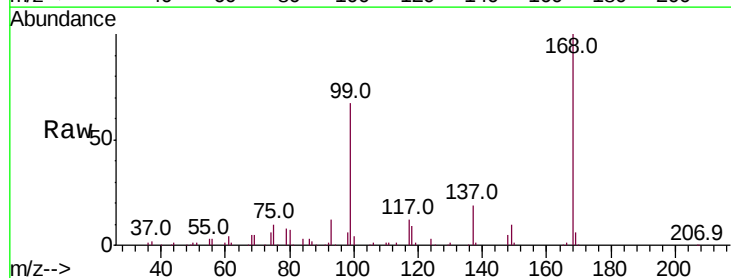
Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-6E-(A-4)

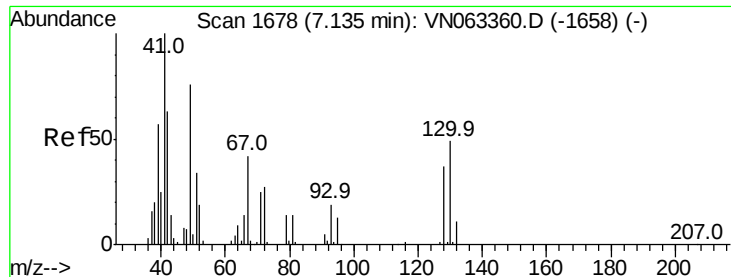
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.0	16.5	49.5#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.577 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063399.D
 Acq: 17 Sep 2020 5:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	74.5	111.7#
121	0.0	24.1	36.1#

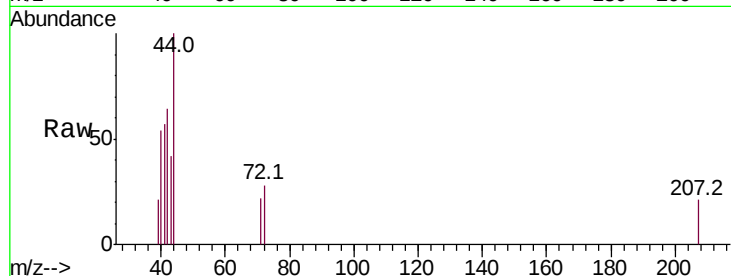




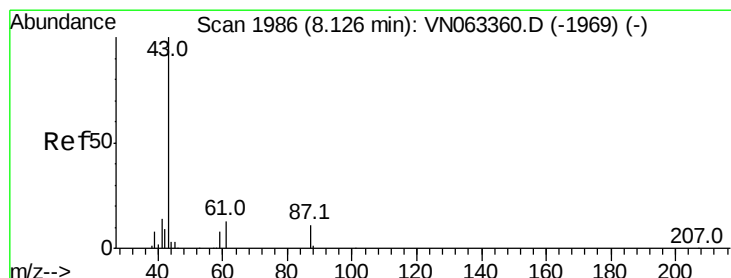
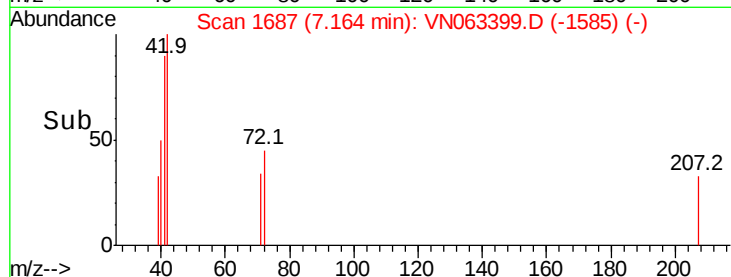
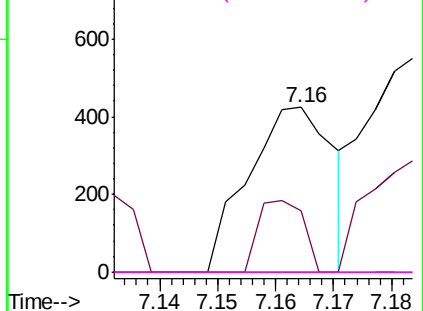
#41
Methacrylonitrile
Concen: 0.215 ug/l
RT: 7.16 min Scan# 1687
Delta R.T. 0.03 min
Lab File: VN063399.D
Acq: 17 Sep 2020 5:51

Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(A-4)

Tot Ion:	41	Resp:	432
Ion	Ratio	Lower	Upper
41	100		
39	23.1	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

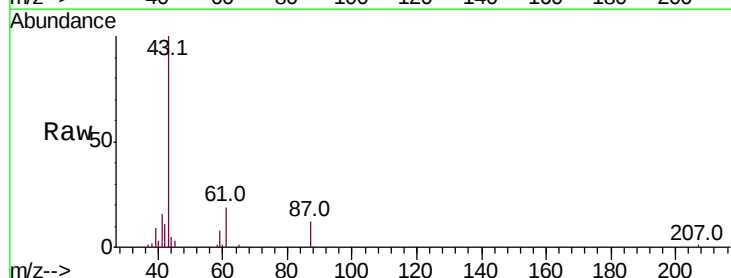


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC

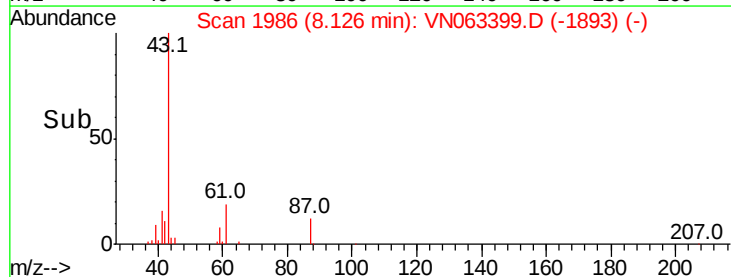
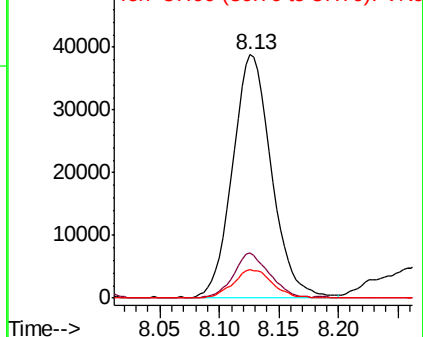


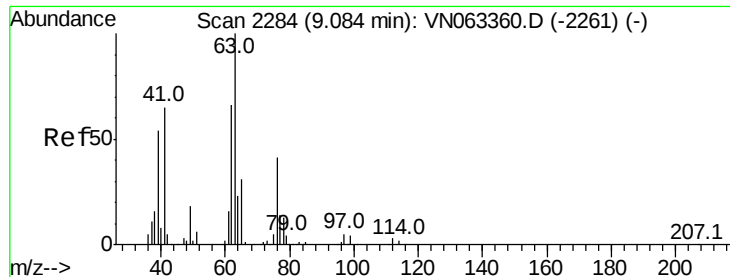
#43
Isopropyl Acetate
Concen: 11.046 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. -0.00 min
Lab File: VN063399.D
Acq: 17 Sep 2020 5:51

Tgt Ion:	43	Resp:	88203
Ion	Ratio	Lower	Upper
43	100		
61	17.1	14.2	21.2
87	11.8	9.0	13.6



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 61.00 (60.70 to 61.70): VNC
Ion 87.00 (86.70 to 87.70): VNC

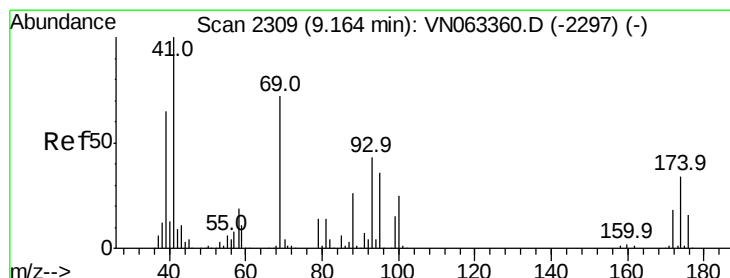
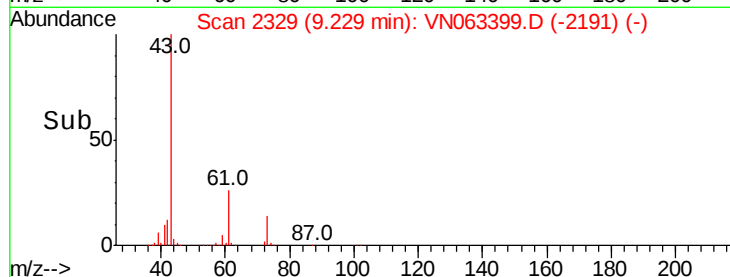
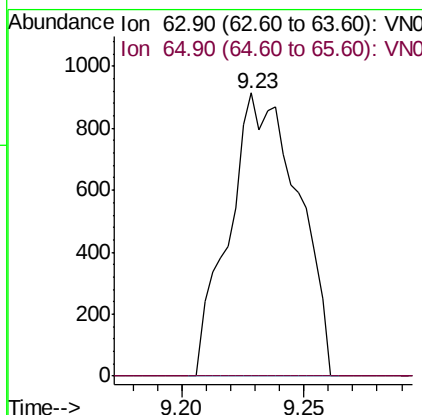
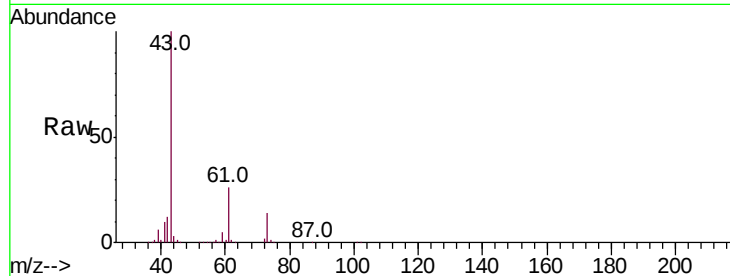




#45
 1,2-Dichloropropane
 Concen: 0.507 ug/l
 RT: 9.23 min Scan# 2329
 Delta R.T. 0.14 min
 Lab File: VN063399.D
 Acq: 17 Sep 2020 5:51

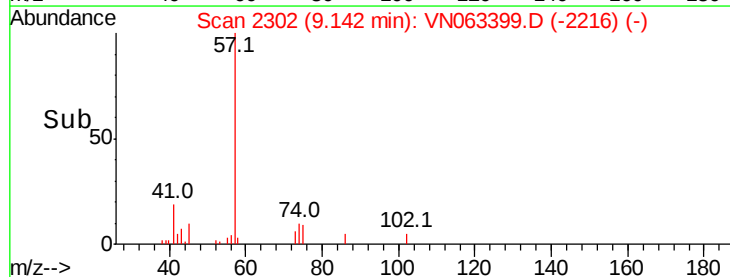
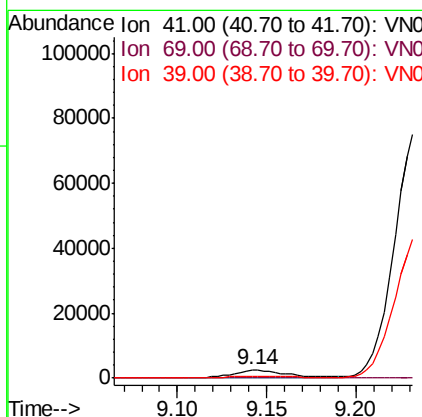
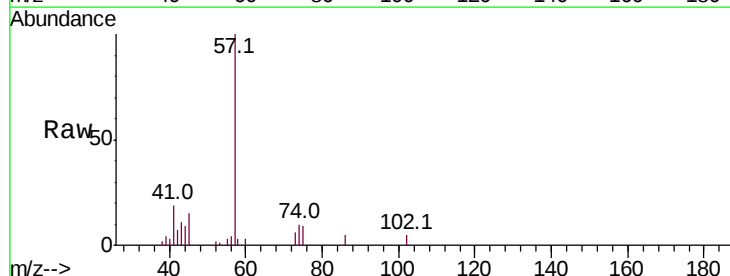
Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-6E-(A-4)

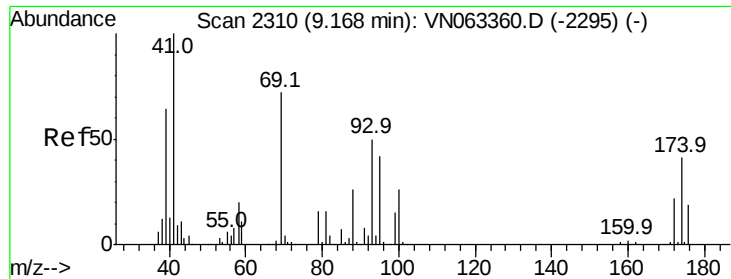
Tot Ion: 63 Resp: 1793
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 1.368 ug/l
 RT: 9.14 min Scan# 2302
 Delta R.T. -0.02 min
 Lab File: VN063399.D
 Acq: 17 Sep 2020 5:51

Tgt Ion: 41 Resp: 5367
 Ion Ratio Lower Upper
 41 100
 69 0.0 59.3 88.9#
 39 0.0 52.9 79.3#

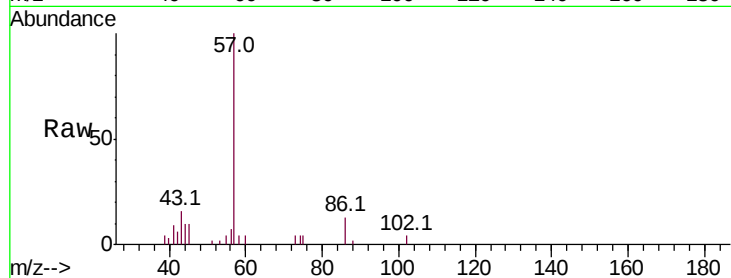




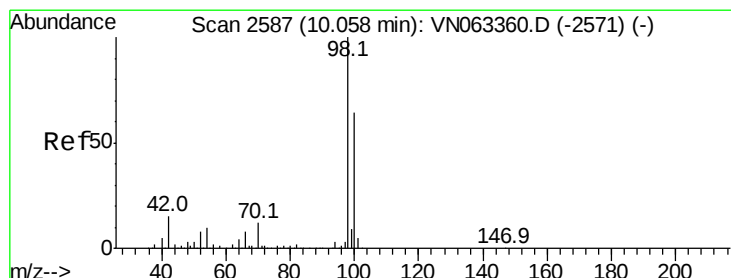
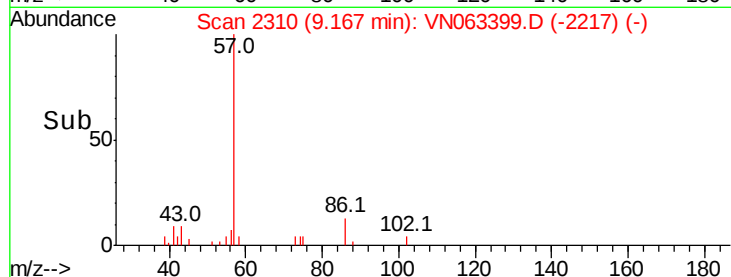
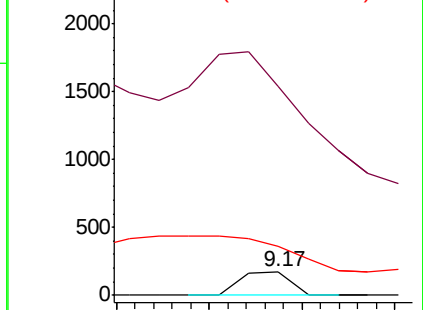
#49
 1,4-Dioxane
 Concen: 1.137 ug/l
 RT: 9.17 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: VN063399.D
 Acq: 17 Sep 2020 5:51

Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-6E-(A-4)

Tot Ion: 88 Resp: 64
 Ion Ratio Lower Upper
 88 100
 43 0.0 32.6 49.0#
 58 0.0 60.0 90.0#

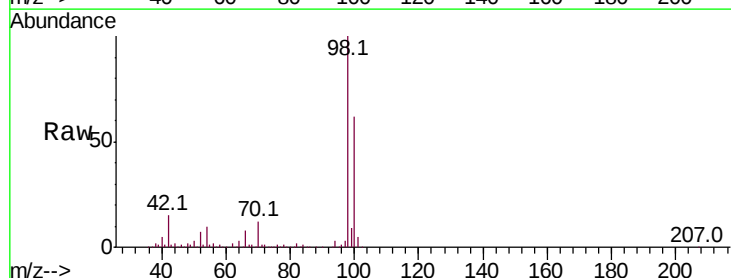


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

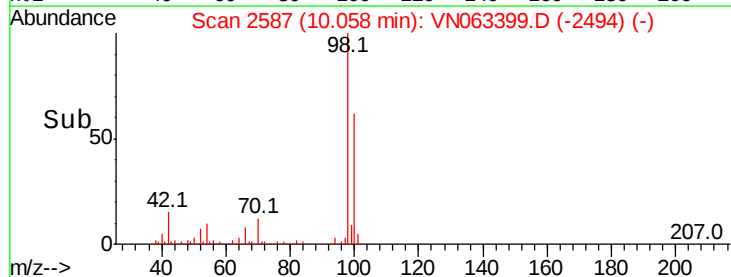
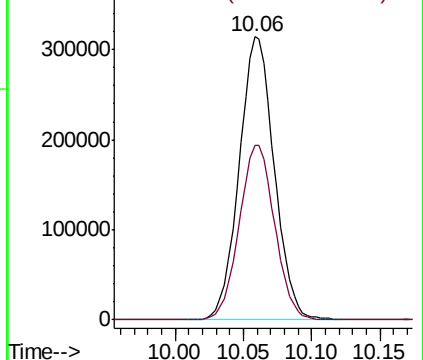


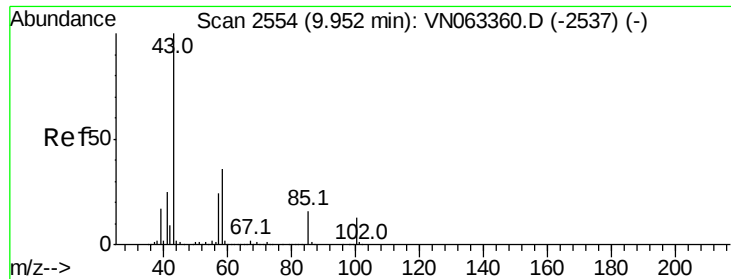
#50
 Toluene-d8
 Concen: 50.431 ug/l
 RT: 10.06 min Scan# 2587
 Delta R.T. -0.00 min
 Lab File: VN063399.D
 Acq: 17 Sep 2020 5:51

Tgt Ion: 98 Resp: 560688
 Ion Ratio Lower Upper
 98 100
 100 62.5 50.7 76.1



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





#51

4-Methyl-2-Pentanone

Concen: 2.097 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063399.D

Acq: 17 Sep 2020 5:51

Instrument :

MSVOA_N

ClientSampleId :

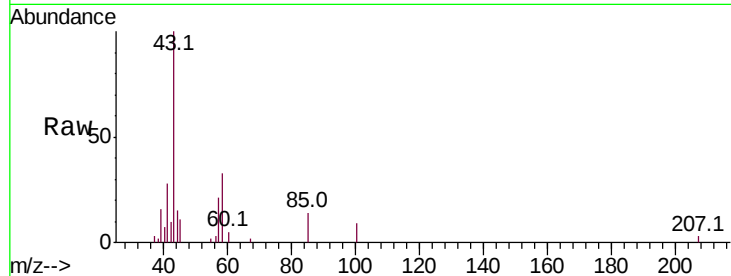
REACTOR-6E-(A-4)

Tot Ion: 43 Resp: 9375

Ion Ratio Lower Upper

43 100

58 41.9 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-2537) (-)

15000

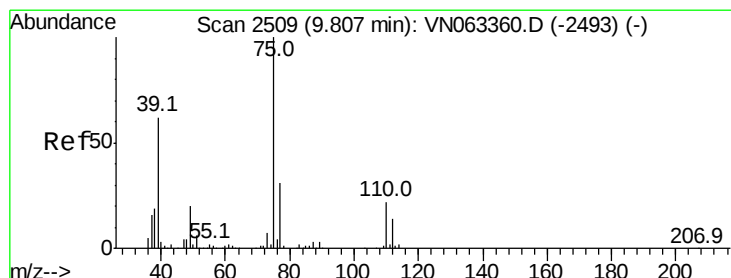
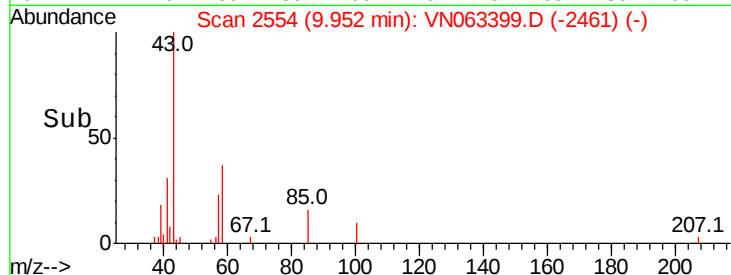
10000

5000

0

9.90 9.95

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.104 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063399.D

Acq: 17 Sep 2020 5:51

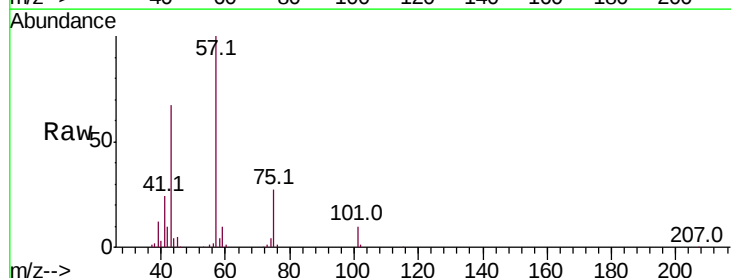
Tgt Ion: 75 Resp: 34718

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 44.9 49.8 74.8#



Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-2493) (-)

Ion 76.90 (76.60 to 77.60): VN063360.D (-2493) (-)

Ion 39.00 (38.70 to 39.70): VN063360.D (-2493) (-)

25000

20000

15000

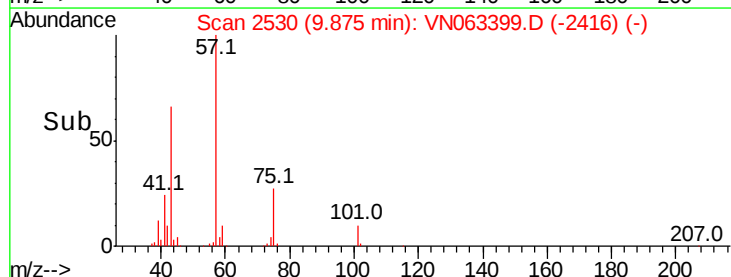
10000

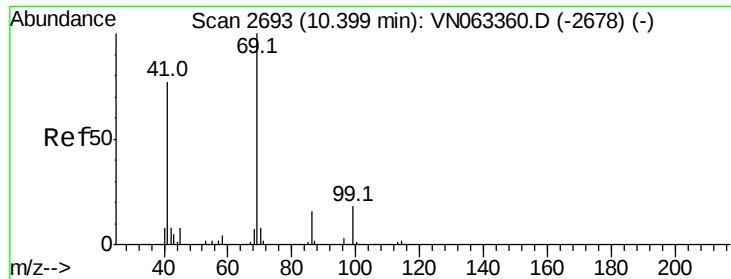
5000

0

9.80 9.85 9.90 9.95

Time-->





#56

Ethyl methacrylate

Concen: 0.273 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN063399.D

Acq: 17 Sep 2020 5:51

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(A-4)

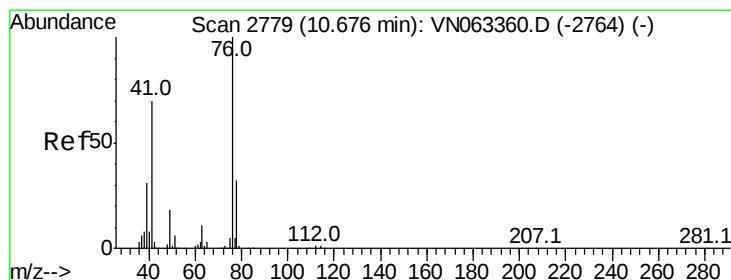
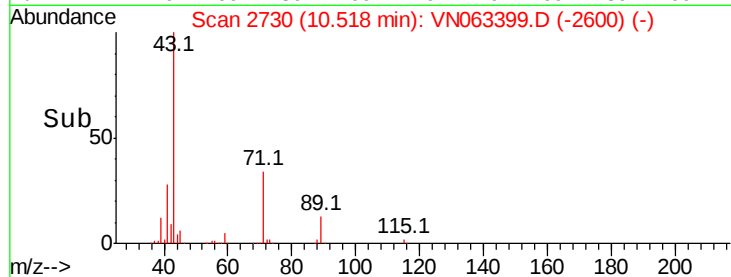
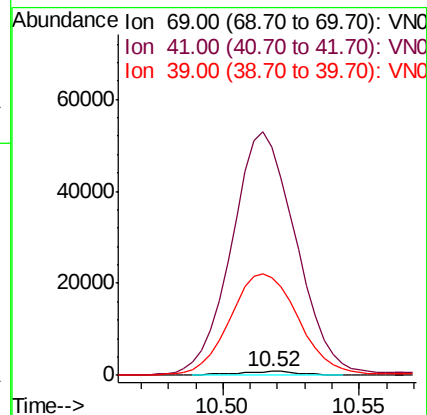
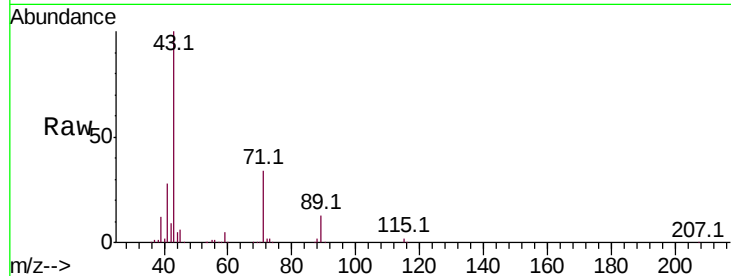
Tot Ion: 69 Resp: 1322

Ion Ratio Lower Upper

69 100

41 6609.7 61.0 91.6#

39 2937.4 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 0.919 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN063399.D

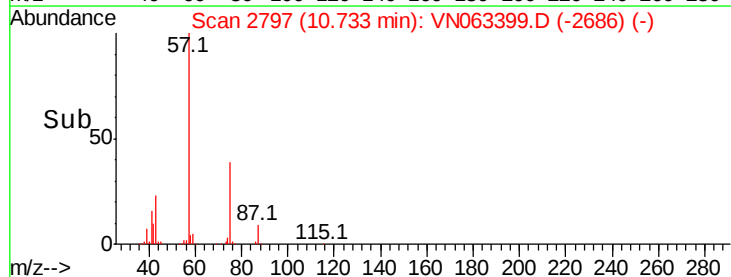
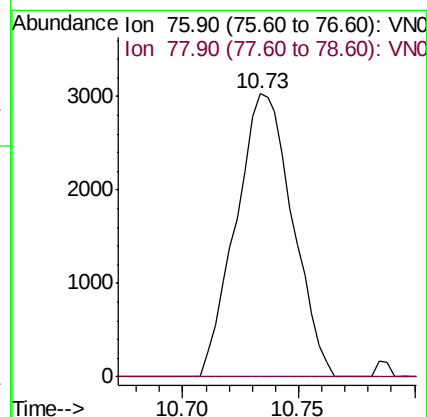
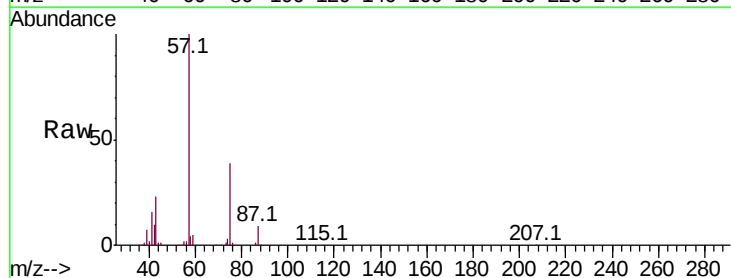
Acq: 17 Sep 2020 5:51

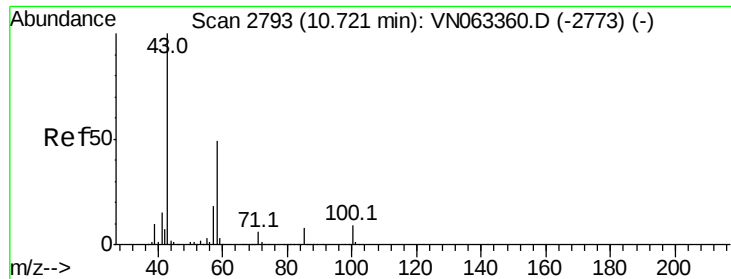
Tgt Ion: 76 Resp: 5138

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#





#59

2-Hexanone

Concen: 27.453 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063399.D

Acq: 17 Sep 2020 5:51

Instrument :

MSVOA_N

ClientSampleId :

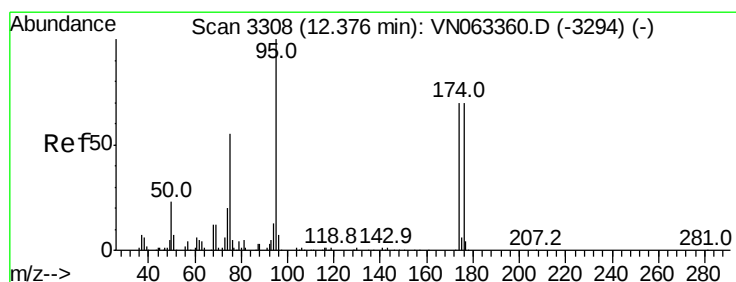
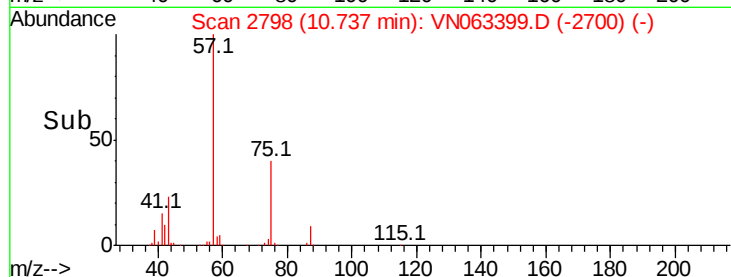
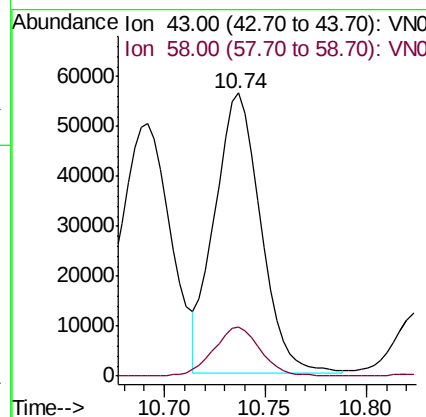
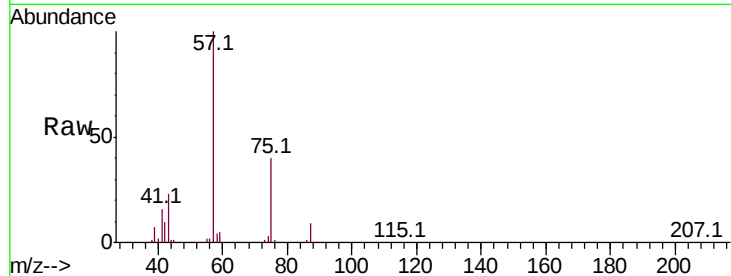
REACTOR-6E-(A-4)

Tot Ion: 43 Resp: 88913

Ion Ratio Lower Upper

43 100

58 17.9 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 52.777 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063399.D

Acq: 17 Sep 2020 5:51

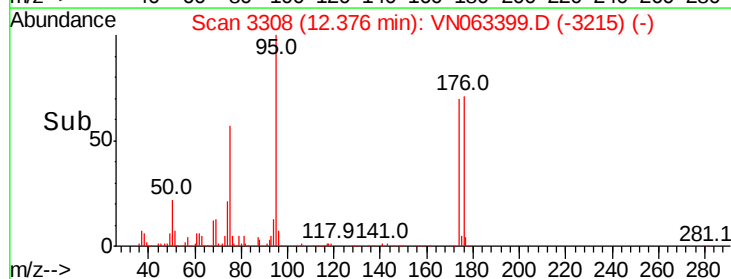
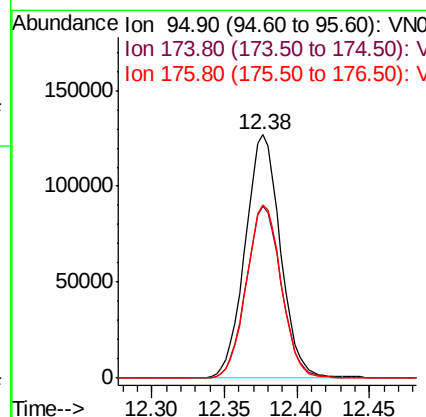
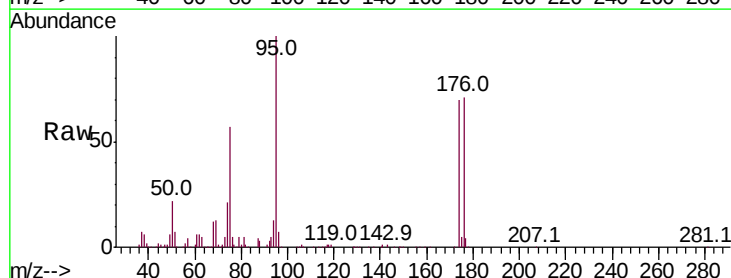
Tgt Ion: 95 Resp: 215099

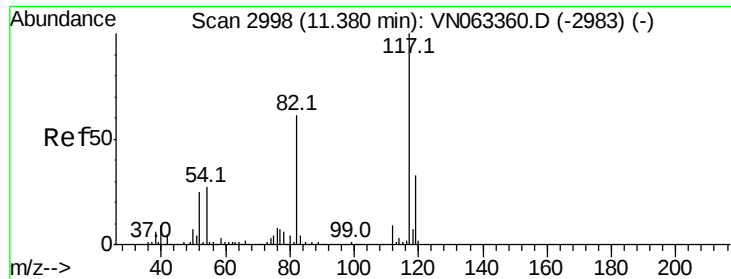
Ion Ratio Lower Upper

95 100

174 70.6 0.0 140.8

176 70.6 0.0 137.6

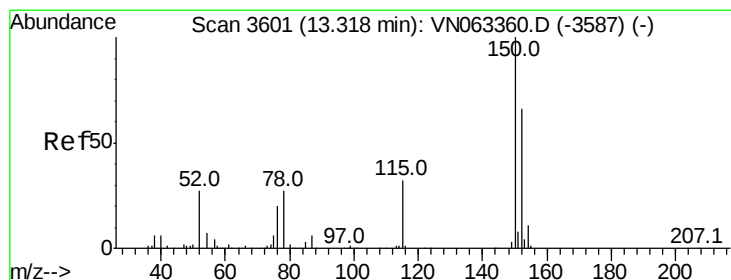
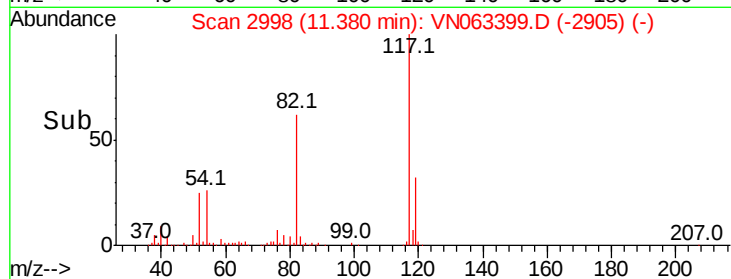
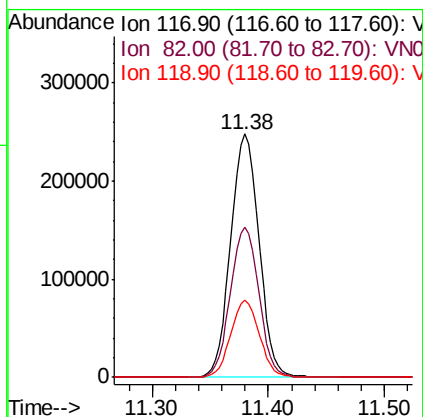
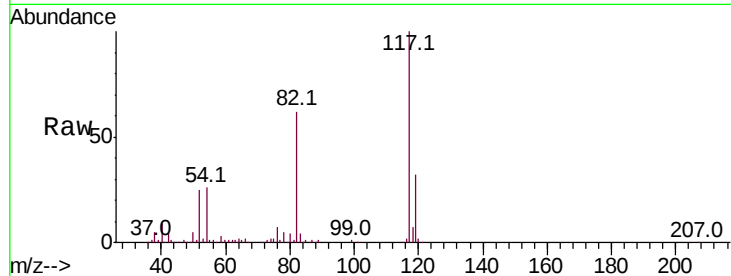




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063399.D
Acq: 17 Sep 2020 5:51

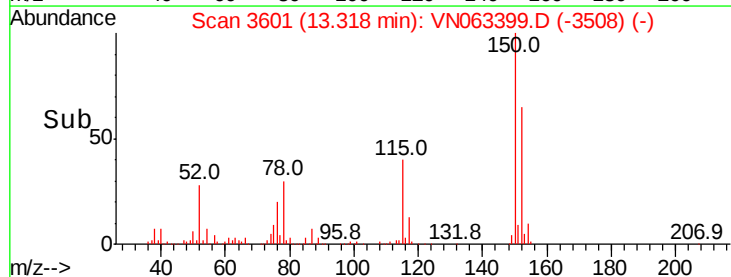
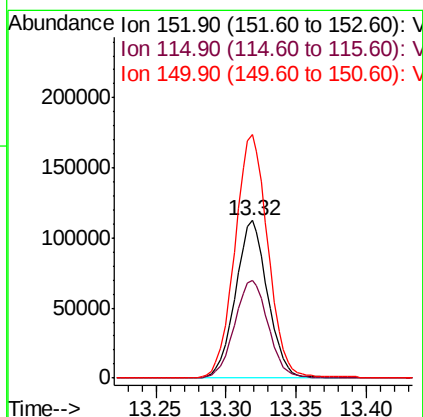
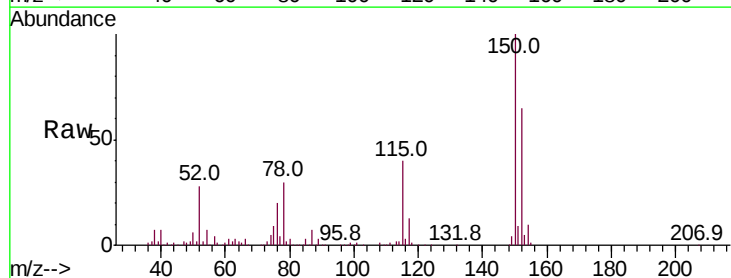
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(A-4)

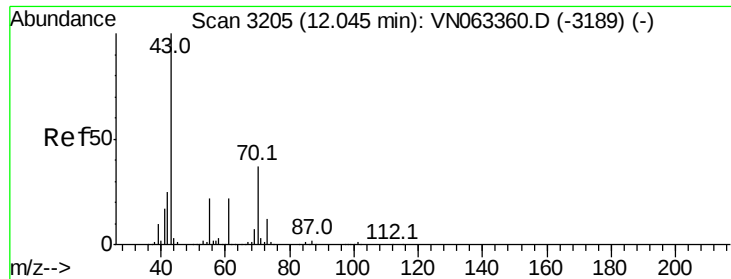
Tot Ion	Ratio	Lower	Upper
117	100		
82	61.6	49.2	73.8
119	31.6	26.2	39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063399.D
Acq: 17 Sep 2020 5:51

Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.2	32.2	96.6
150	158.8	0.0	343.4





#74

N-amvl acetate

Concen: 0.520 ug/l

RT: 12.01 min Scan# 3195

Delta R.T. -0.03 min

Lab File: VN063399.D

Acq: 17 Sep 2020 5:51

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(A-4)

Tot Ion: 43 Resp: 3565

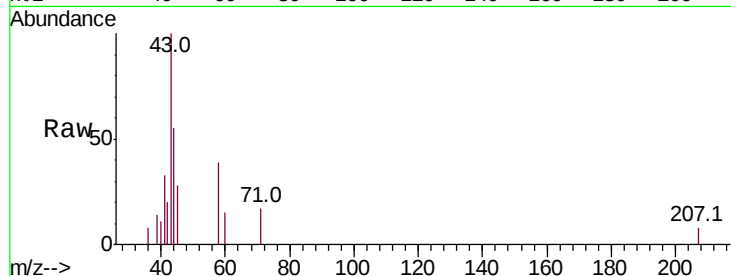
Ion Ratio Lower Upper

43 100

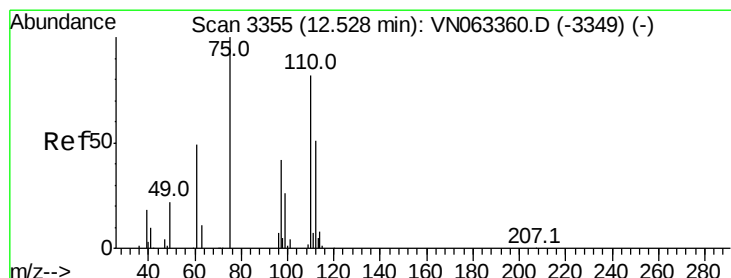
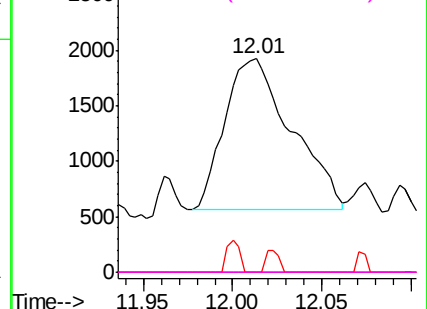
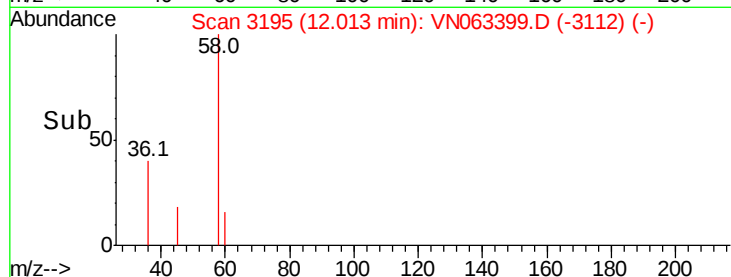
70 0.0 29.6 44.4#

55 2.9 17.7 26.5#

61 0.0 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 27.538 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063399.D

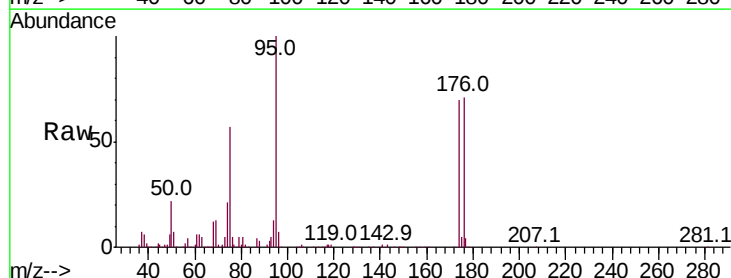
Acq: 17 Sep 2020 5:51

Tgt Ion: 75 Resp: 123297

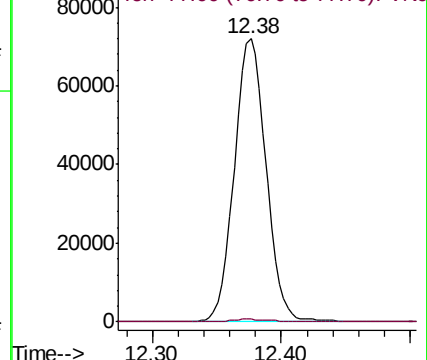
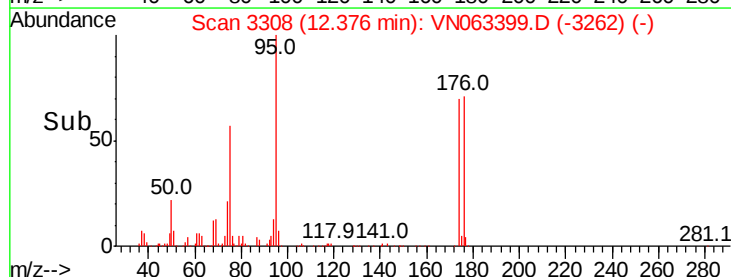
Ion Ratio Lower Upper

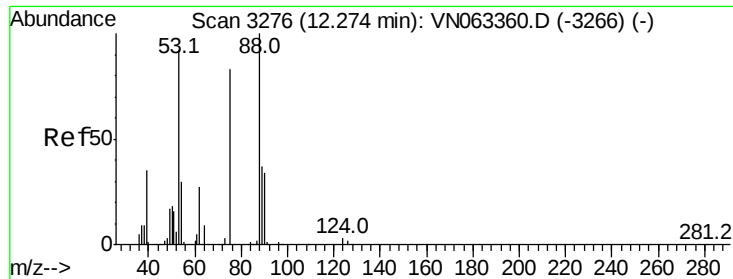
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 75.499 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063399.D

Acq: 17 Sep 2020 5:51

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(A-4)

Tot Ion: 75 Resp: 123297

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

