

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092920\
 Data File : VN063733.D
 Acq On : 29 Sep 2020 17:52
 Operator : JC/MD
 Sample : L3867-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EO-01-092820

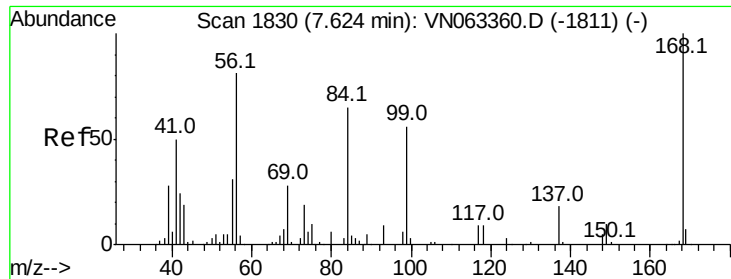
Quant Time: Sep 30 00:53:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	242019	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	437054	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	452697	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	197381	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	193324	46.93	ug/l	0.00
Spiked Amount			Recovery	=	93.86%	
35) Dibromofluoromethane	7.55	113	145022	47.93	ug/l	0.00
Spiked Amount			Recovery	=	95.86%	
50) Toluene-d8	10.06	98	562892	49.48	ug/l	0.00
Spiked Amount			Recovery	=	98.96%	
62) 4-Bromofluorobenzene	12.38	95	228143	54.70	ug/l	0.00
Spiked Amount			Recovery	=	109.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.38	74	748	0.400	ug/l	88
13) Acrolein	3.71	56	72	0.340	ug/l #	13
16) Acetone	3.78	43	22057	16.659	ug/l	96
18) Methyl Acetate	4.29	43	2600	0.774	ug/l #	74
20) Methylene Chloride	4.50	84	4598	1.371	ug/l #	82
25) 2-Butanone	6.79	43	1518	0.745	ug/l	94
29) Tetrahydrofuran	7.18	42	985	0.708	ug/l #	78
31) Cyclohexane	7.63	56	6947	1.221	ug/l #	28
36) 1,1-Dichloropropene	7.62	75	21244	4.563	ug/l #	51
38) Carbon Tetrachloride	7.63	117	27218	5.726	ug/l #	16
43) Isopropyl Acetate	8.13	43	67069	8.208	ug/l	100
48) Methyl methacrylate	9.14	41	4575	1.140	ug/l #	15
49) 1,4-Dioxane	9.23	88	67	1.163	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	7113	1.555	ug/l	98
54) cis-1,3-Dichloropropene	9.87	75	28492	4.895	ug/l #	66
56) Ethyl methacrylate	10.52	69	1429	0.288	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	4406	0.770	ug/l #	42
59) 2-Hexanone	10.74	43	69813	21.065	ug/l #	54
74) N-amyl acetate	12.00	43	2883	0.385	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	132338	27.088	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	132338	74.265	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.02	105	3558	0.267	ug/l	90
95) Naphthalene	15.11	128	6025	0.478	ug/l #	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063733.D

Acq: 29 Sep 2020 17:52

Instrument :

MSVOA_N

ClientSampleId :

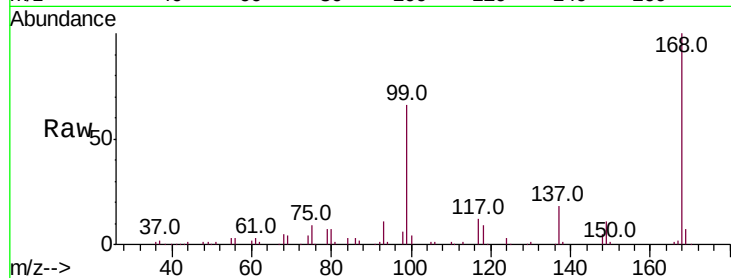
EO-01-092820

Tot Ion:168 Resp: 242019

Ion Ratio Lower Upper

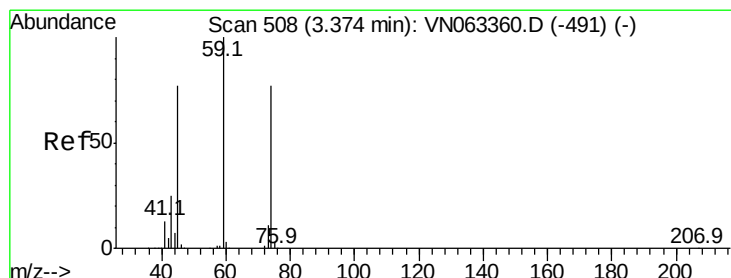
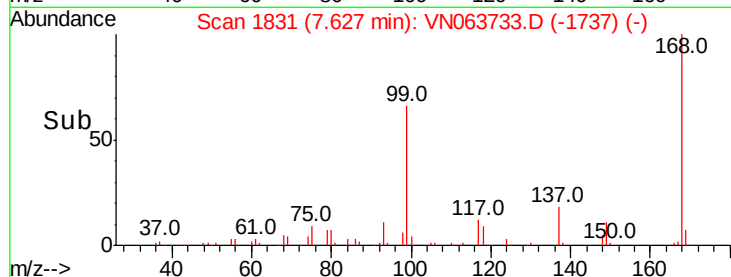
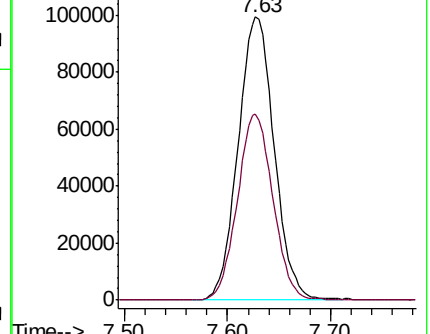
168 100

99 66.0 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#8

Diethyl Ether

Concen: 0.400 ug/l

RT: 3.38 min Scan# 511

Delta R.T. 0.01 min

Lab File: VN063733.D

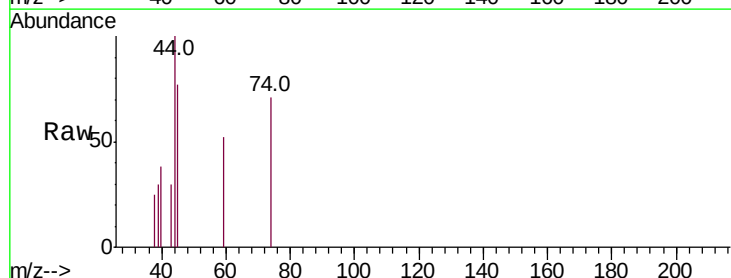
Acq: 29 Sep 2020 17:52

Tgt Ion: 74 Resp: 748

Ion Ratio Lower Upper

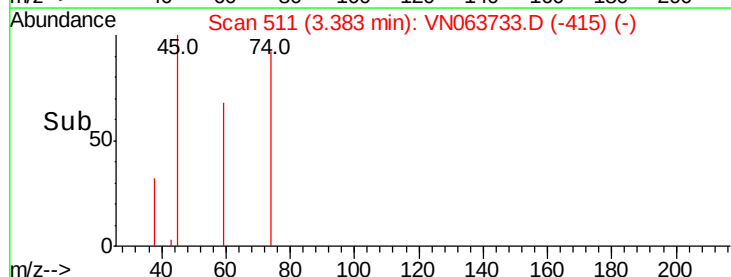
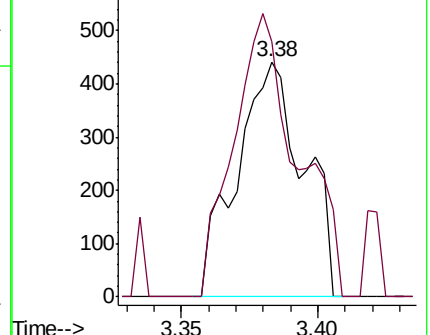
74 100

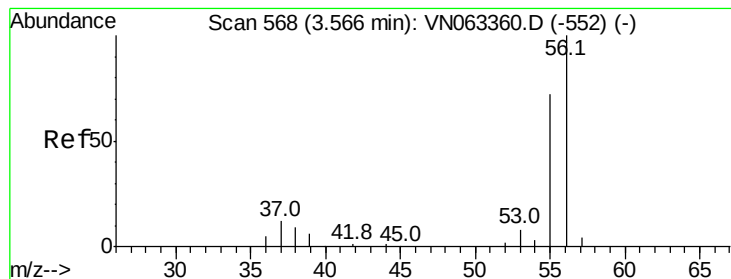
45 116.3 52.1 156.4



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





#13

Acrolein

Concen: 0.340 ug/l

RT: 3.71 min Scan# 612

Delta R.T. 0.14 min

Lab File: VN063733.D

Acq: 29 Sep 2020 17:52

Instrument :

MSVOA_N

ClientSampleId :

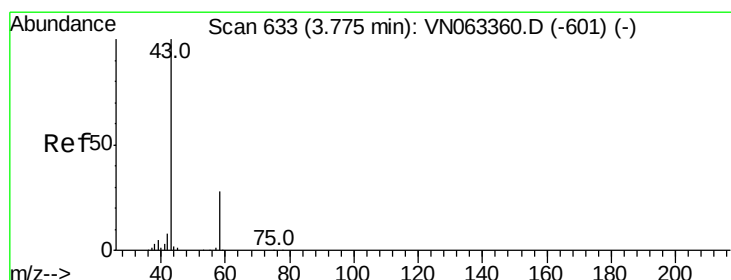
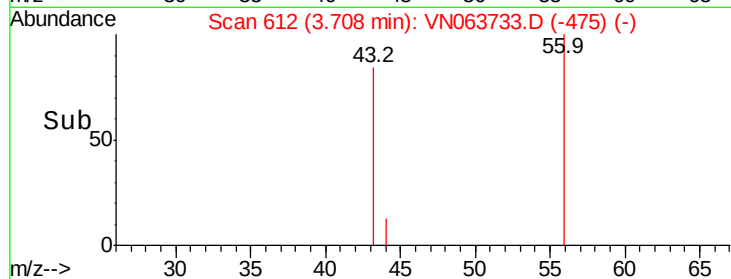
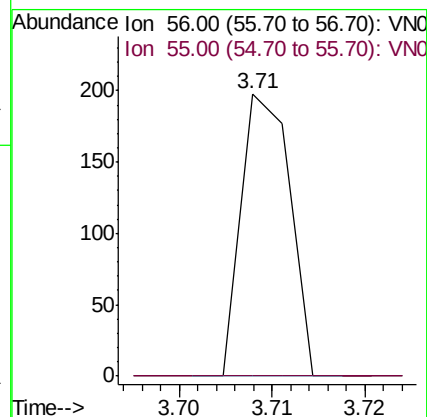
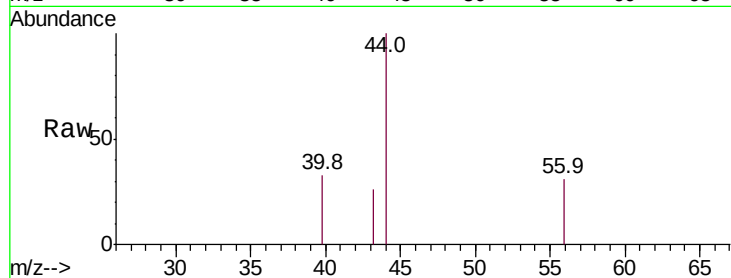
EO-01-092820

Tot Ion: 56 Resp: 72

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.2#



#16

Acetone

Concen: 16.659 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063733.D

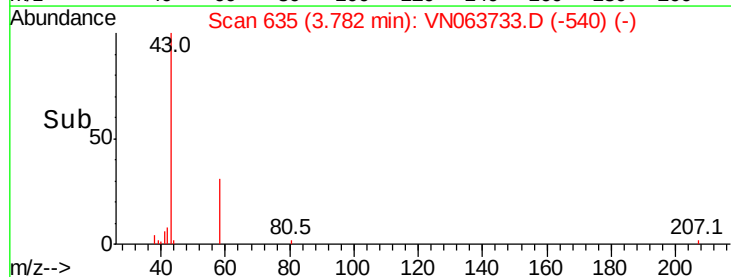
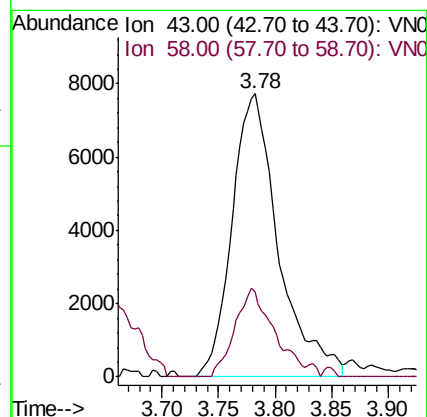
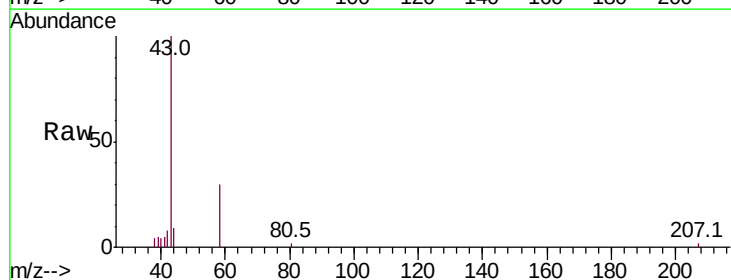
Acq: 29 Sep 2020 17:52

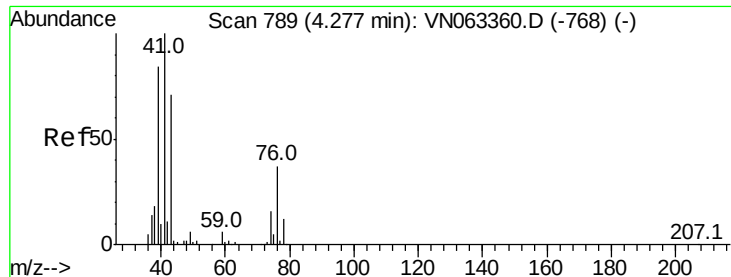
Tgt Ion: 43 Resp: 22057

Ion Ratio Lower Upper

43 100

58 30.2 22.3 33.5

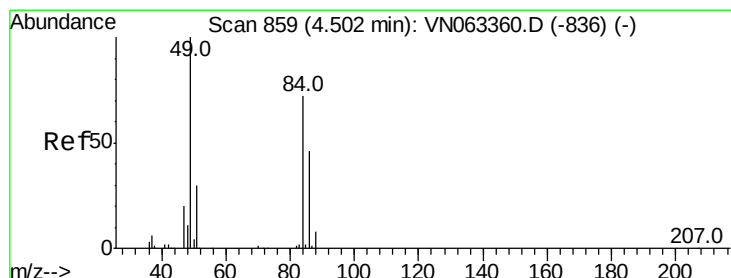
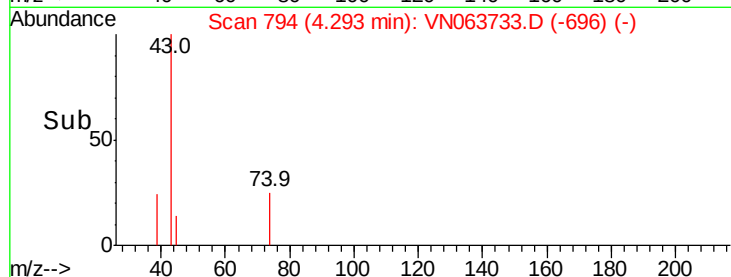
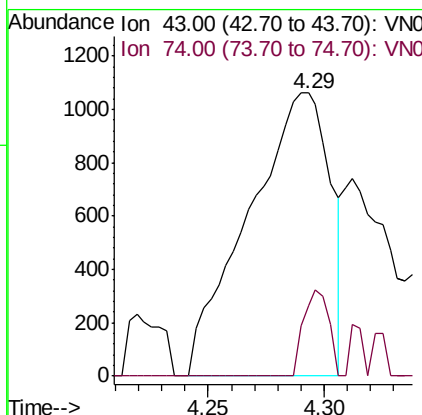
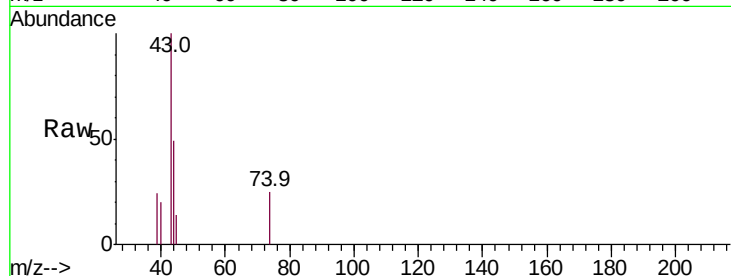




#18
Methyl Acetate
Concen: 0.774 ug/l
RT: 4.29 min Scan# 794
Delta R.T. 0.02 min
Lab File: VN063733.D
Acq: 29 Sep 2020 17:52

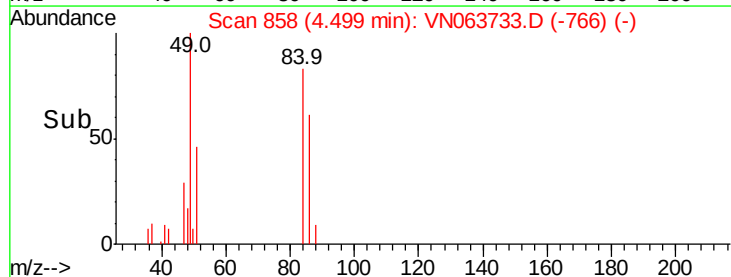
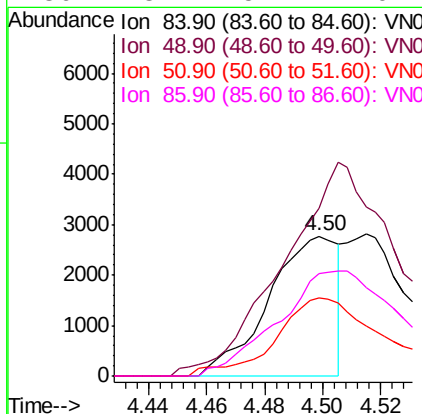
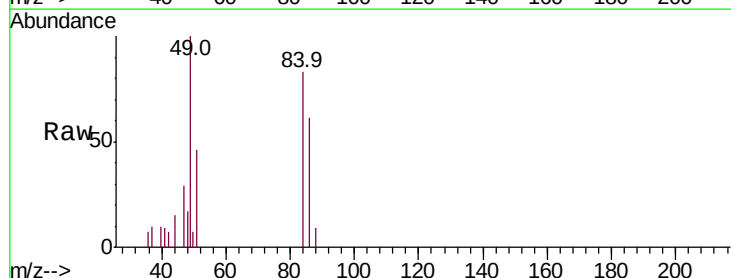
Instrument :
MSVOA_N
ClientSampleId :
EO-01-092820

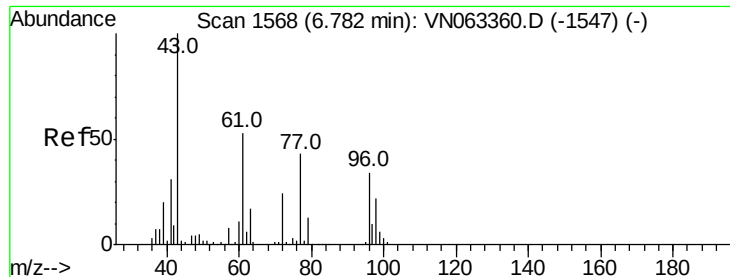
Tot Ion: 43 Resp: 2600
Ion Ratio Lower Upper
43 100
74 9.4 17.4 26.2#



#20
Methylene Chloride
Concen: 1.371 ug/l
RT: 4.50 min Scan# 858
Delta R.T. -0.00 min
Lab File: VN063733.D
Acq: 29 Sep 2020 17:52

Tgt Ion: 84 Resp: 4598
Ion Ratio Lower Upper
84 100
49 114.3 110.7 166.1
51 55.5 32.9 49.3#
86 73.4 51.1 76.7





#25

2-Butanone

Concen: 0.745 ug/l

RT: 6.79 min Scan# 1572

Delta R.T. 0.01 min

Lab File: VN063733.D

Acq: 29 Sep 2020 17:52

Instrument :

MSVOA_N

ClientSampleId :

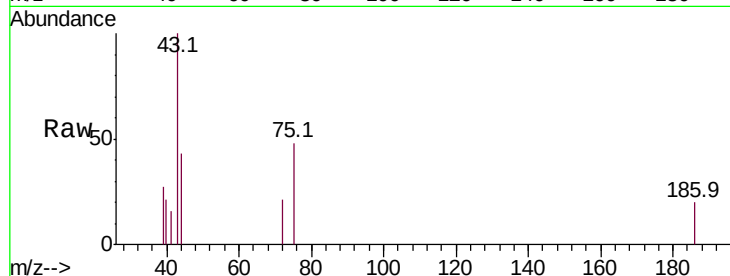
EO-01-092820

Tot Ion: 43 Resp: 1518

Ion Ratio Lower Upper

43 100

72 21.2 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN063733.D (-1547) (-)

Ion 72.00 (71.70 to 72.70): VN063733.D (-1547) (-)

6.79

1200

1000

800

600

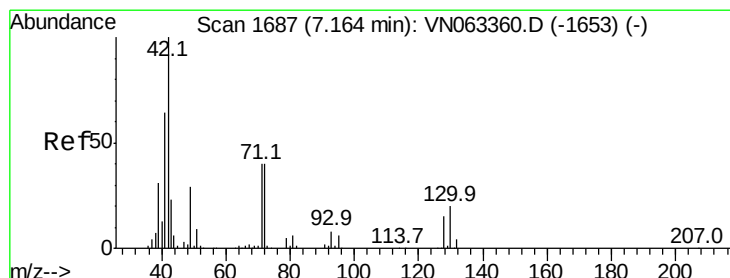
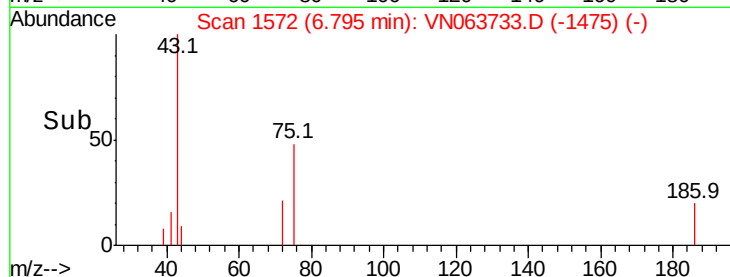
400

200

0

6.74 6.76 6.78 6.80

Time-->



#29

Tetrahydrofuran

Concen: 0.708 ug/l

RT: 7.18 min Scan# 1692

Delta R.T. 0.02 min

Lab File: VN063733.D

Acq: 29 Sep 2020 17:52

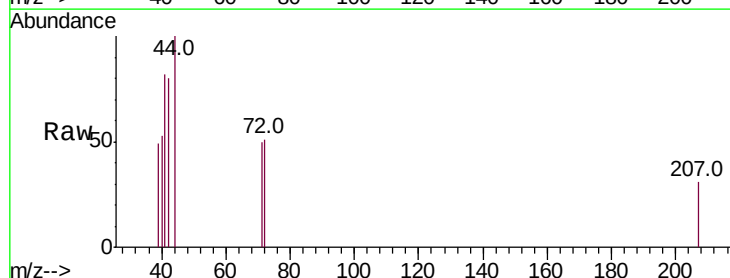
Tgt Ion: 42 Resp: 985

Ion Ratio Lower Upper

42 100

72 30.8 32.1 48.1#

71 20.7 31.2 46.8#



Abundance Ion 42.00 (41.70 to 42.70): VN063733.D (-1594) (-)

Ion 72.00 (71.70 to 72.70): VN063733.D (-1594) (-)

Ion 71.00 (70.70 to 71.70): VN063733.D (-1594) (-)

7.18

500

400

300

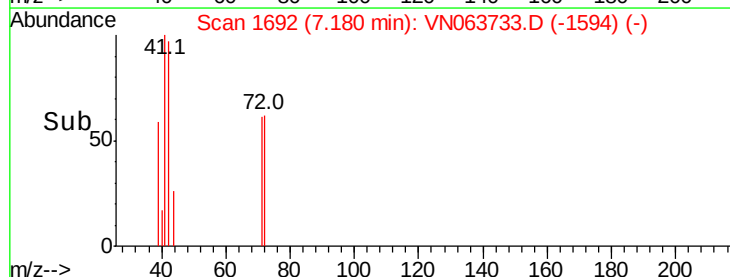
200

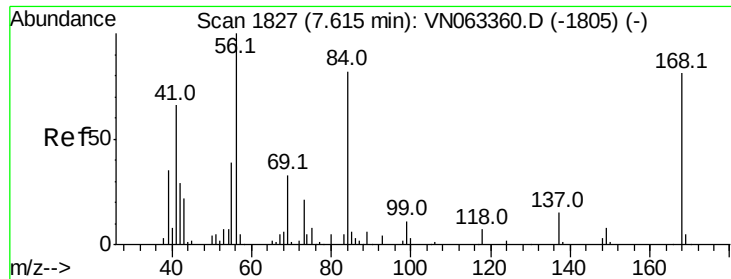
100

0

7.15 7.20

Time-->

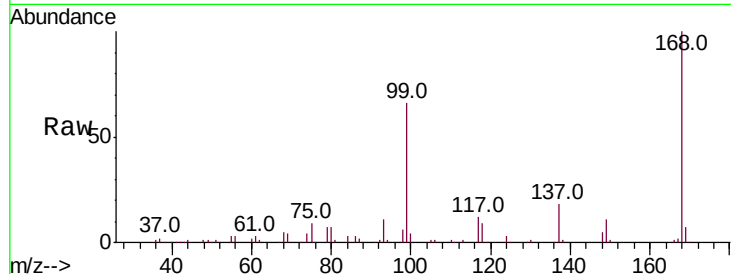




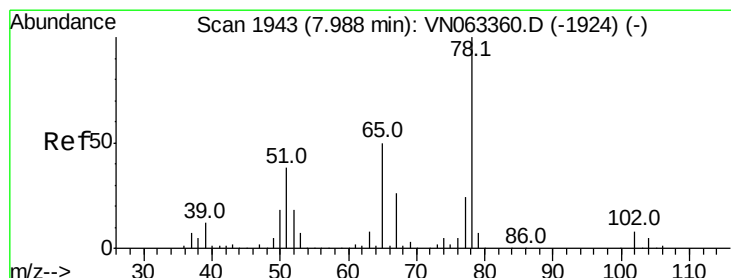
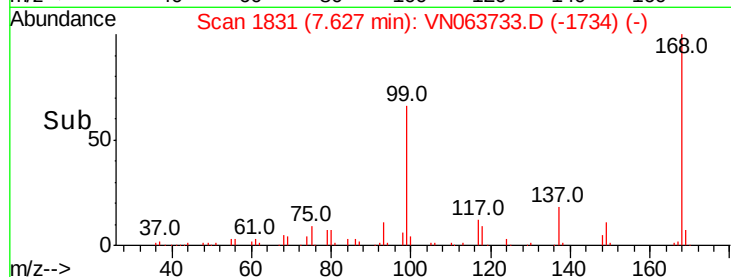
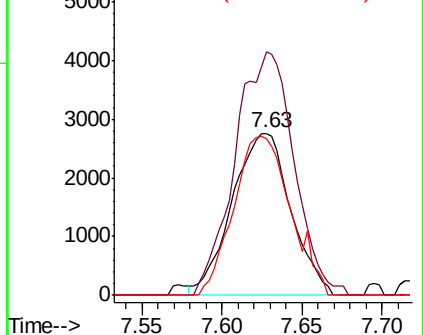
#31
Cyclohexane
Concen: 1.221 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN063733.D
Acq: 29 Sep 2020 17:52

Instrument :
MSVOA_N
ClientSampled :
EO-01-092820

Tot Ion: 56 Resp: 6947
Ion Ratio Lower Upper
56 100
69 150.5 26.1 39.1#
84 96.6 65.4 98.2

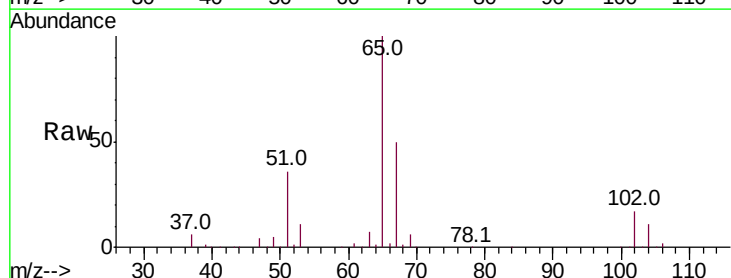


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

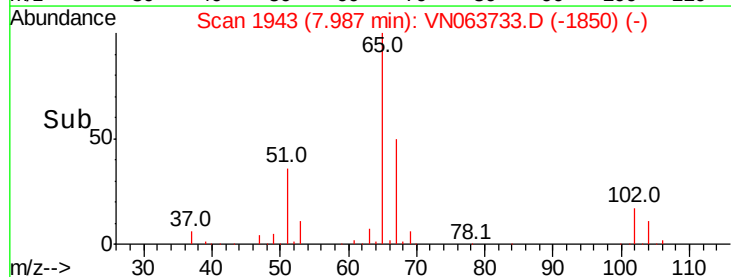
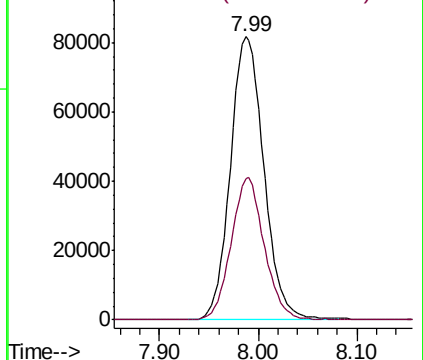


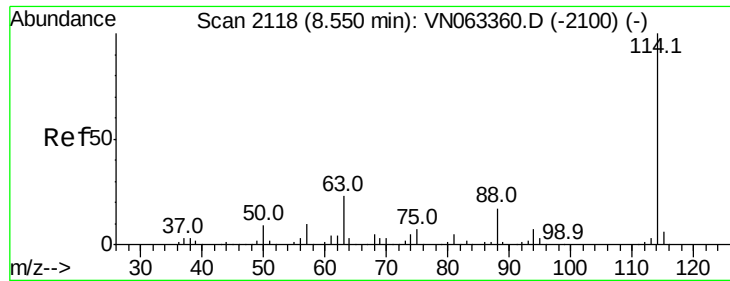
#33
1,2-Dichloroethane-d4
Concen: 46.926 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063733.D
Acq: 29 Sep 2020 17:52

Tgt Ion: 65 Resp: 193324
Ion Ratio Lower Upper
65 100
67 49.4 0.0 104.2



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

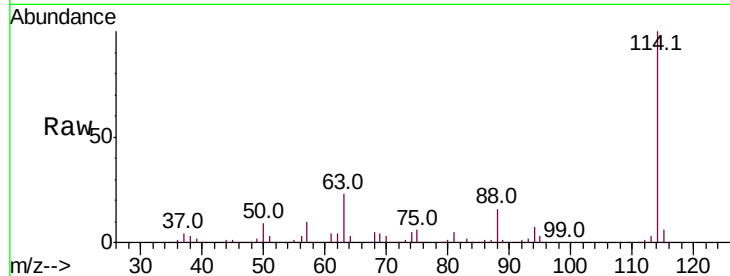




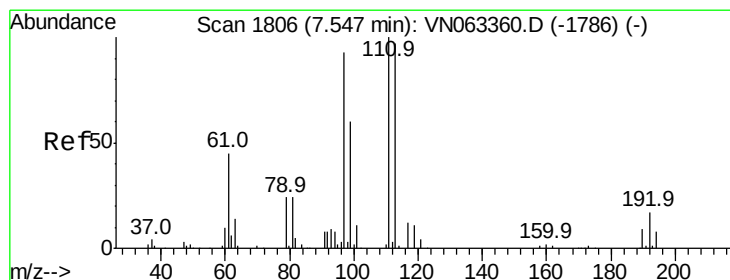
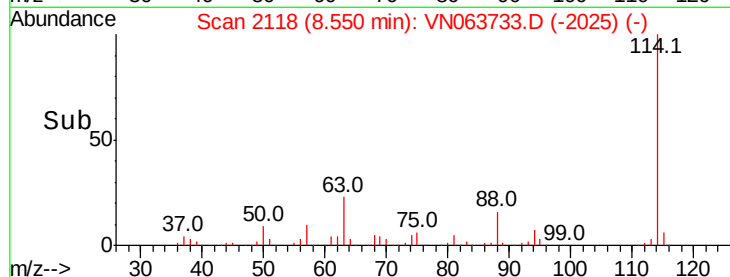
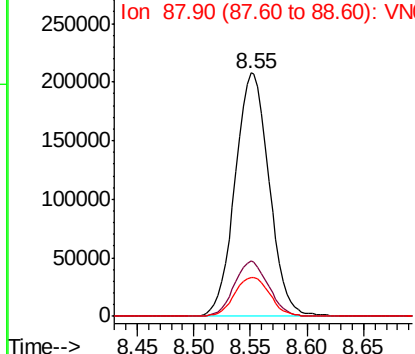
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063733.D
 Acq: 29 Sep 2020 17:52

Instrument :
 MSVOA_N
 ClientSampled :
 EO-01-092820

Tot Ion:	114	Resp:	437054
Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	46.4
88	16.0	0.0	33.2

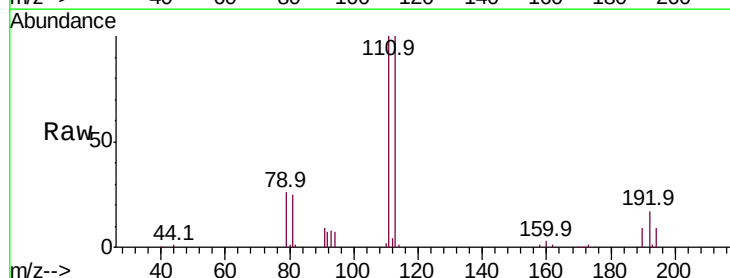


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

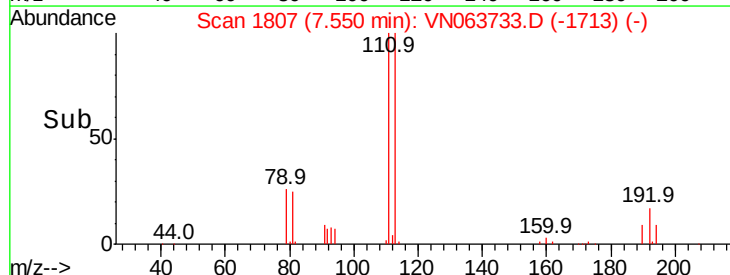
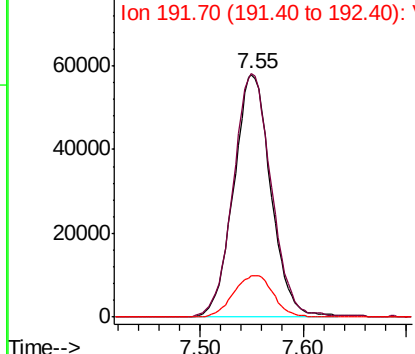


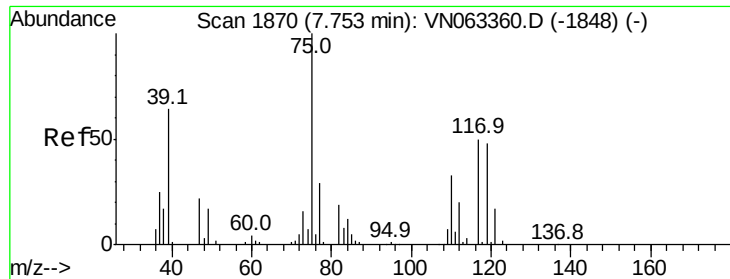
#35
 Dibromofluoromethane
 Concen: 47.931 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063733.D
 Acq: 29 Sep 2020 17:52

Tgt Ion:	113	Resp:	145022
Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.9	124.3
192	18.3	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: 4.563 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063733.D

Acq: 29 Sep 2020 17:52

Instrument :

MSVOA_N

ClientSampleId :

EO-01-092820

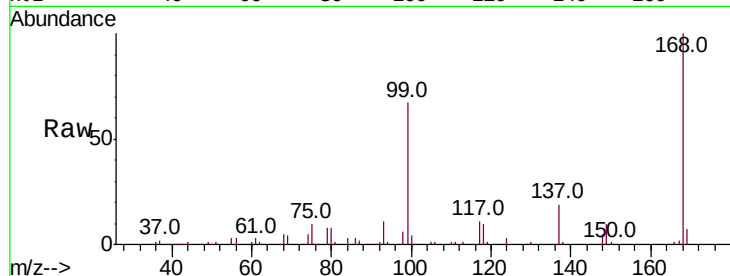
Tot Ion: 75 Resp: 21244

Ion Ratio Lower Upper

75 100

110 8.6 16.5 49.5#

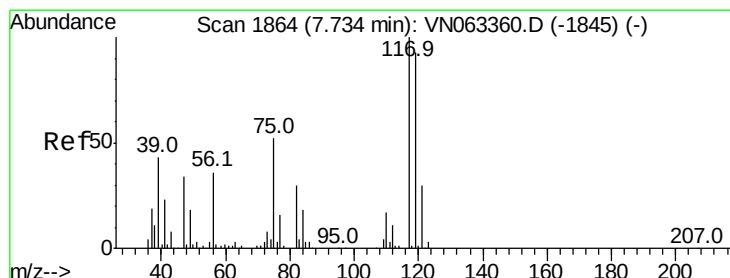
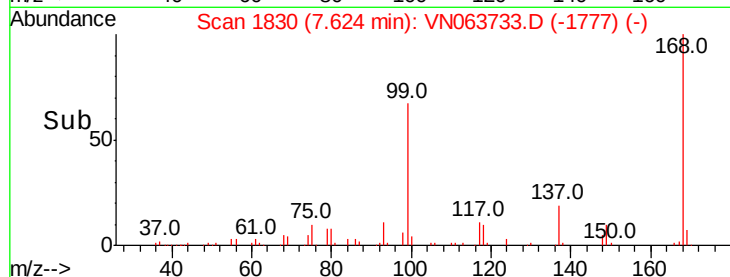
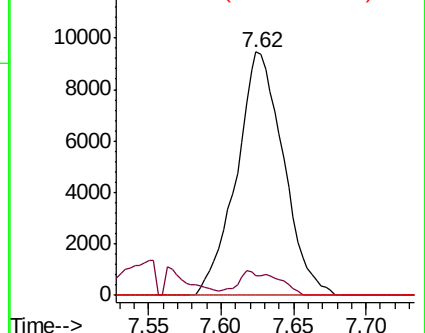
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN063733.D (-1777) (-)

Ion 109.90 (109.60 to 110.60): VN063733.D (-1777) (-)

Ion 76.90 (76.60 to 77.60): VN063733.D (-1777) (-)



#38

Carbon Tetrachloride

Concen: 5.726 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063733.D

Acq: 29 Sep 2020 17:52

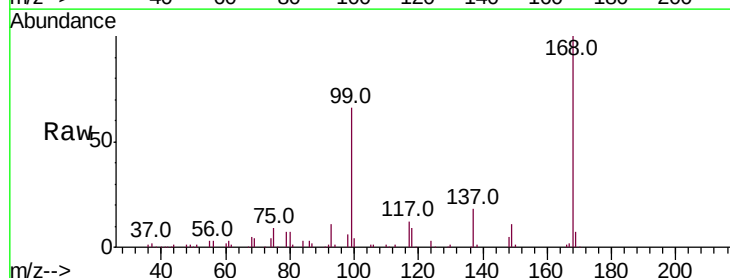
Tgt Ion: 117 Resp: 27218

Ion Ratio Lower Upper

117 100

119 3.8 74.5 111.7#

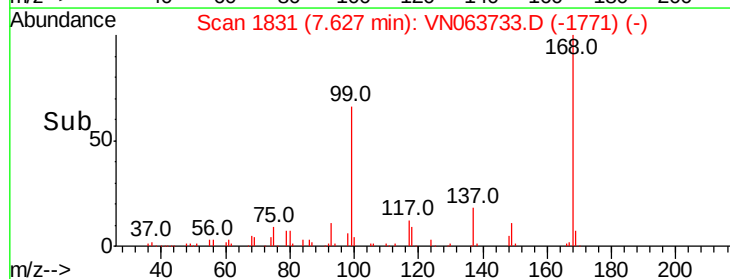
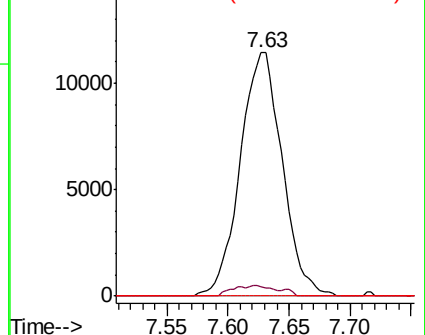
121 0.0 24.1 36.1#

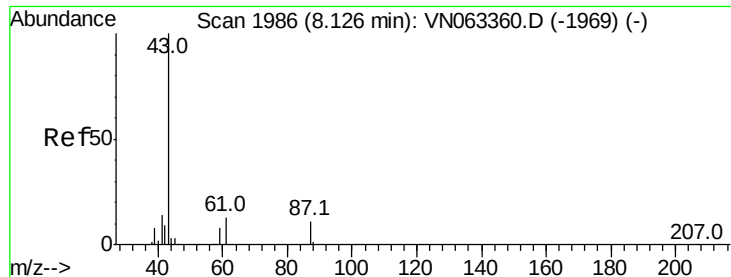


Abundance Ion 116.80 (116.50 to 117.50): VN063733.D (-1771) (-)

Ion 118.80 (118.50 to 119.50): VN063733.D (-1771) (-)

Ion 120.80 (120.50 to 121.50): VN063733.D (-1771) (-)





#43

Isopropyl Acetate

Concen: 8.208 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063733.D

Acq: 29 Sep 2020 17:52

Instrument :

MSVOA_N

ClientSampleId :

EO-01-092820

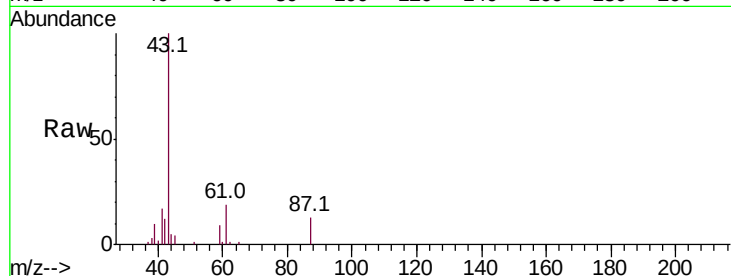
Tot Ion: 43 Resp: 67069

Ion Ratio Lower Upper

43 100

61 17.7 14.2 21.2

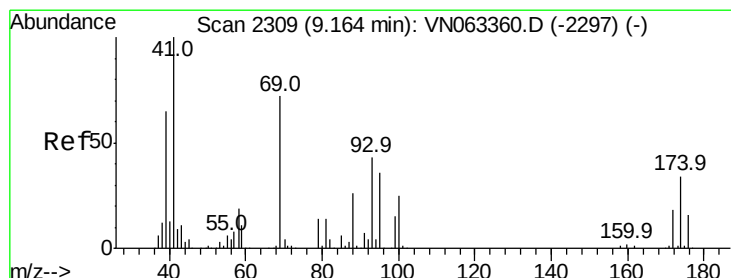
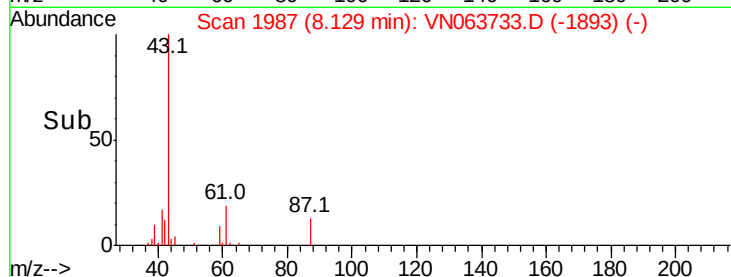
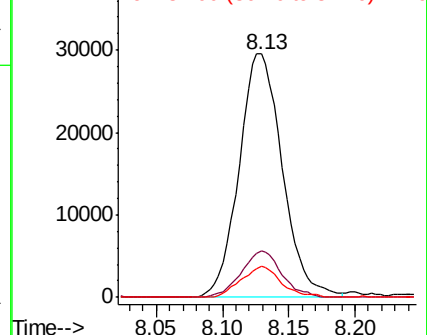
87 11.7 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 1.140 ug/l

RT: 9.14 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN063733.D

Acq: 29 Sep 2020 17:52

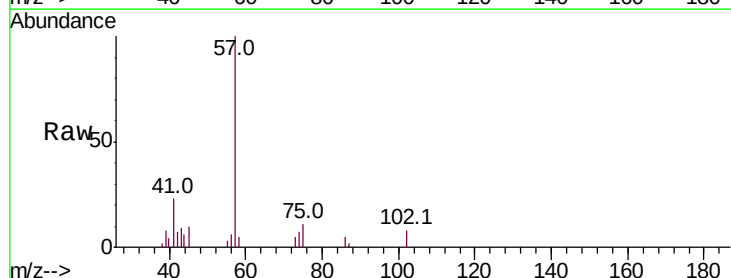
Tgt Ion: 41 Resp: 4575

Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

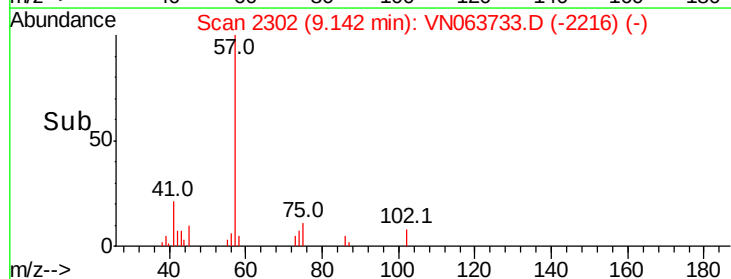
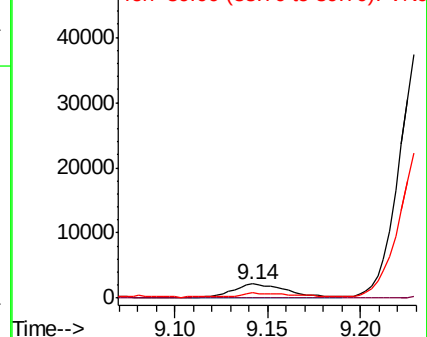
39 0.0 52.9 79.3#

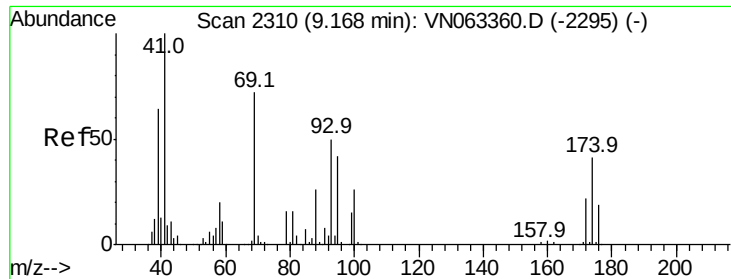


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 1.163 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN063733.D

Acq: 29 Sep 2020 17:52

Instrument :

MSVOA_N

ClientSampled :

EO-01-092820

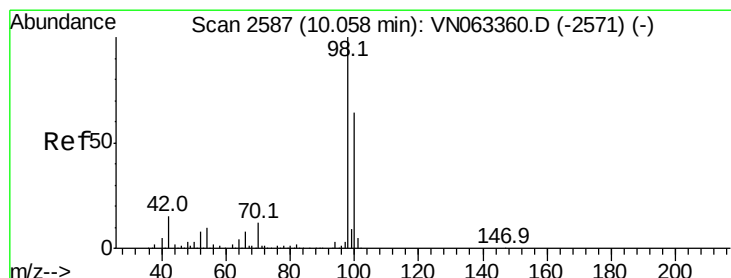
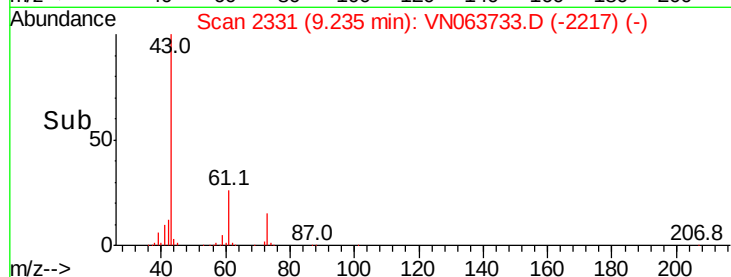
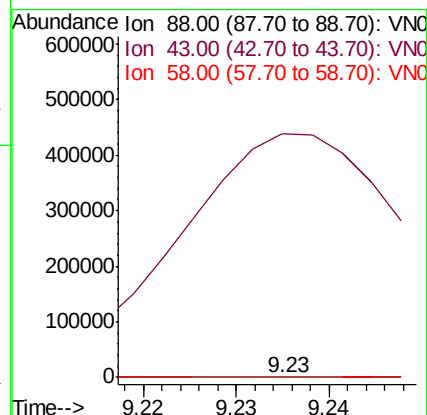
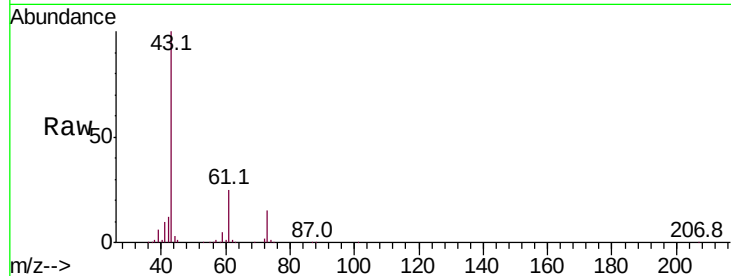
Tot Ion: 88 Resp: 67

Ion Ratio Lower Upper

88 100

43 1218268.7 32.6 49.0#

58 5289.6 60.0 90.0#



#50

Toluene-d8

Concen: 49.477 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN063733.D

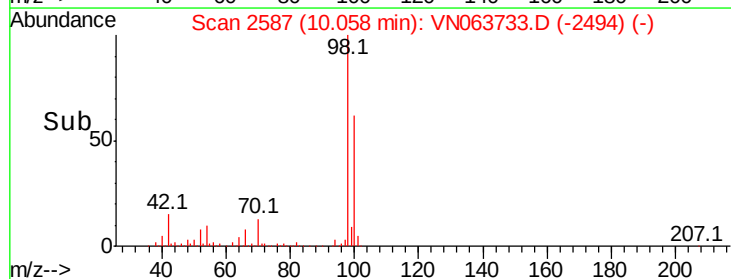
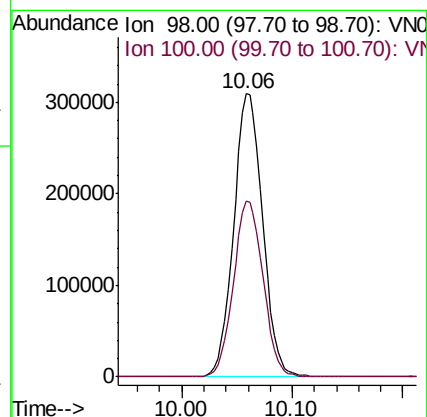
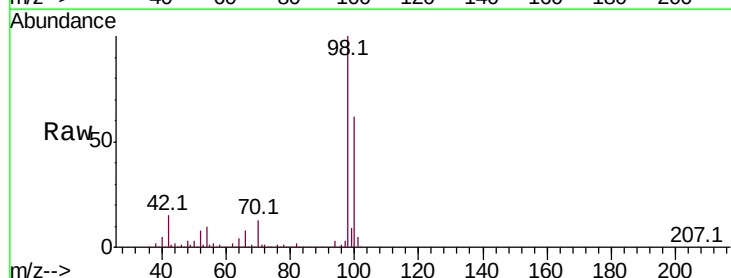
Acq: 29 Sep 2020 17:52

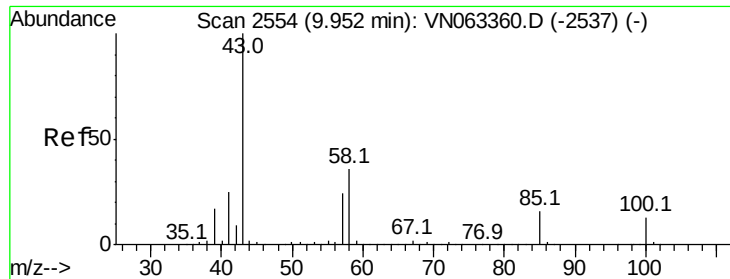
Tgt Ion: 98 Resp: 562892

Ion Ratio Lower Upper

98 100

100 63.5 50.7 76.1





#51

4-Methyl-2-Pentanone

Concen: 1.555 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN063733.D

Acq: 29 Sep 2020 17:52

Instrument :

MSVOA_N

ClientSampleId :

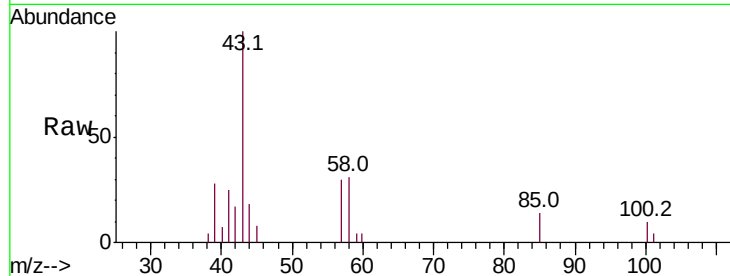
EO-01-092820

Tot Ion: 43 Resp: 7113

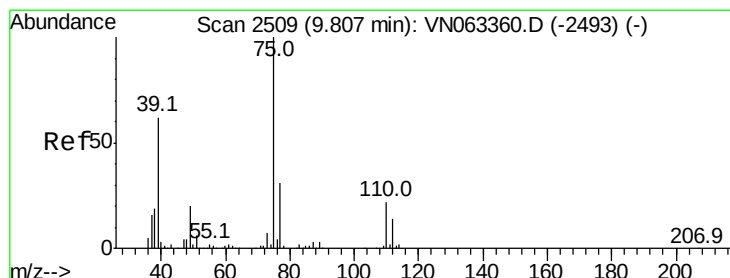
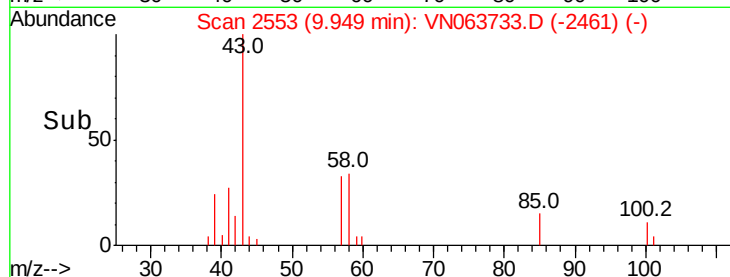
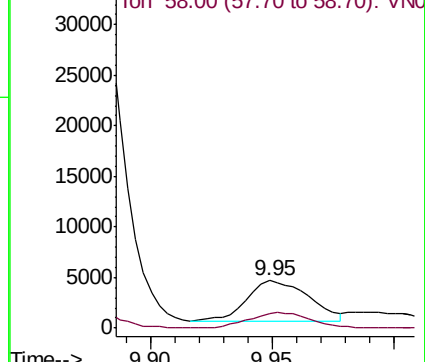
Ion Ratio Lower Upper

43 100

58 37.6 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN063733.D (-2461) (-)



#54

cis-1,3-Dichloropropene

Concen: 4.895 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063733.D

Acq: 29 Sep 2020 17:52

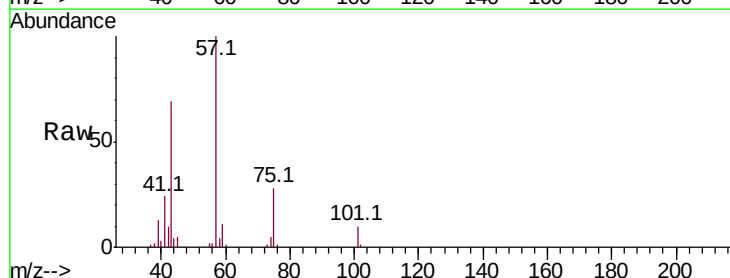
Tgt Ion: 75 Resp: 28492

Ion Ratio Lower Upper

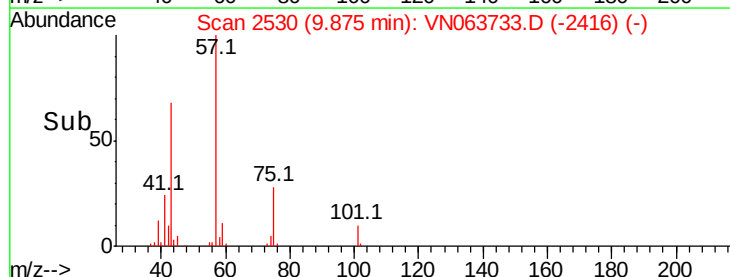
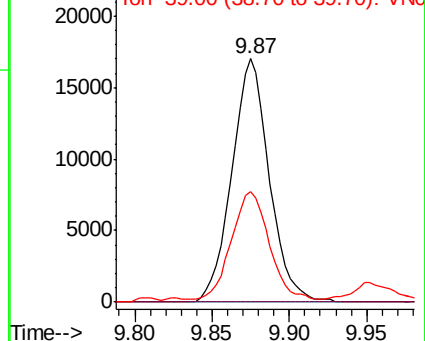
75 100

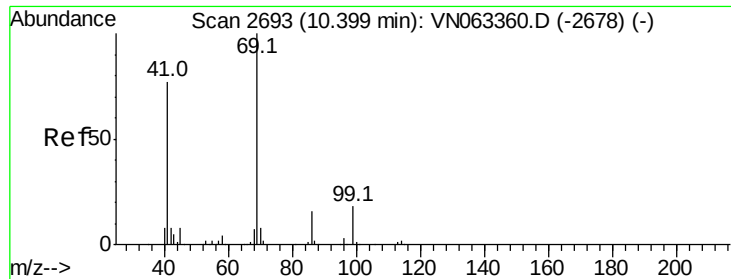
77 0.0 24.6 37.0#

39 44.5 49.8 74.8#



Abundance Ion 74.90 (74.60 to 75.60): VN063733.D (-2416) (-)





#56

Ethyl methacrylate

Concen: 0.288 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN063733.D

Acq: 29 Sep 2020 17:52

Instrument :

MSVOA_N

ClientSampleId :

EO-01-092820

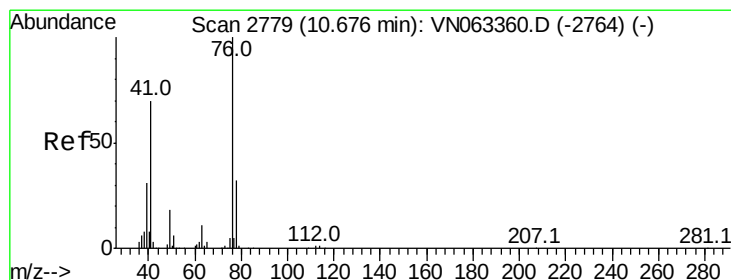
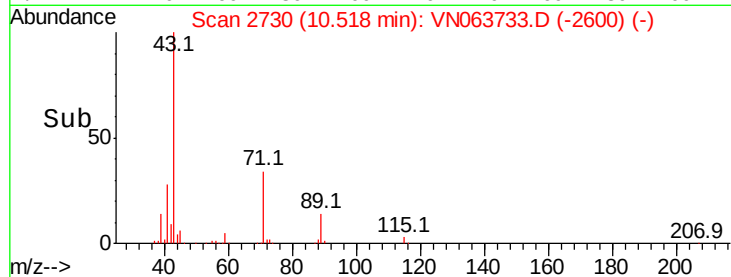
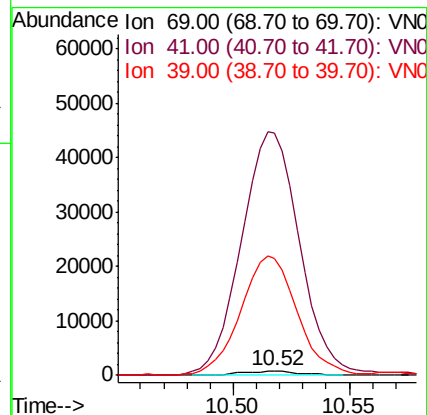
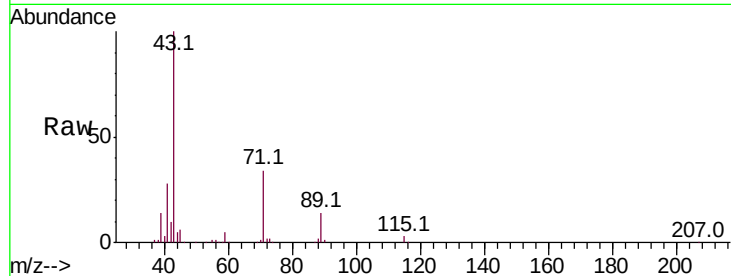
Tot Ion: 69 Resp: 1429

Ion Ratio Lower Upper

69 100

41 5527.9 61.0 91.6#

39 2560.2 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 0.770 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN063733.D

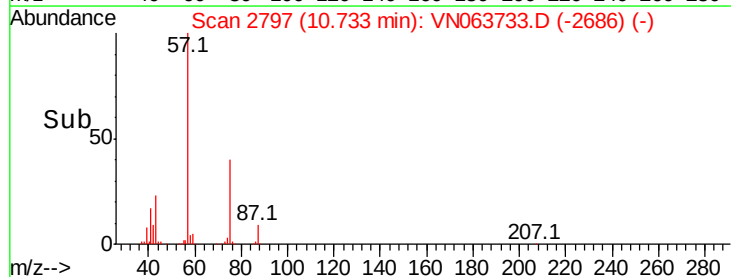
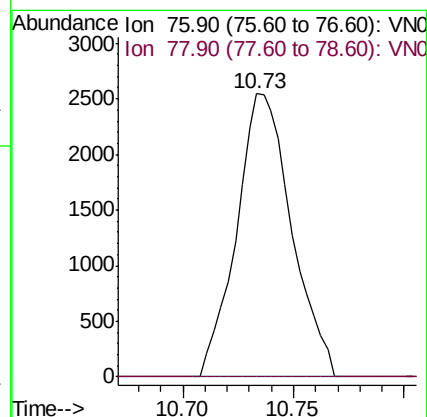
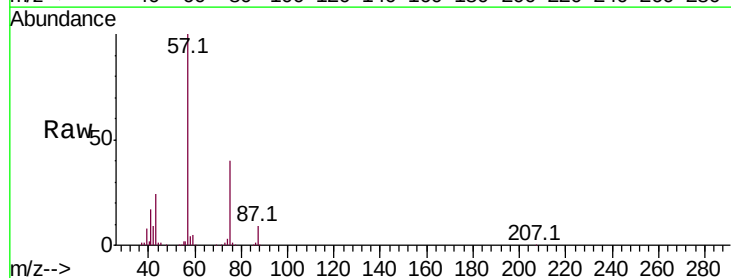
Acq: 29 Sep 2020 17:52

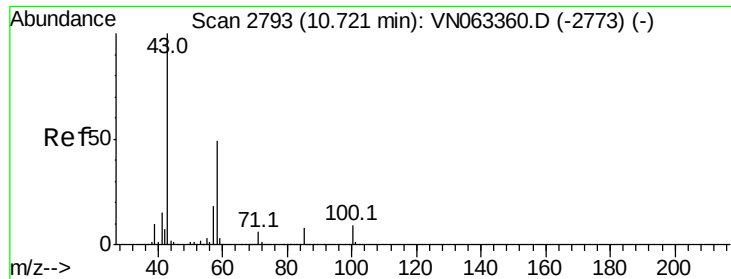
Tgt Ion: 76 Resp: 4406

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#





#59

2-Hexanone

Concen: 21.065 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063733.D

Acq: 29 Sep 2020 17:52

Instrument :

MSVOA_N

ClientSampleId :

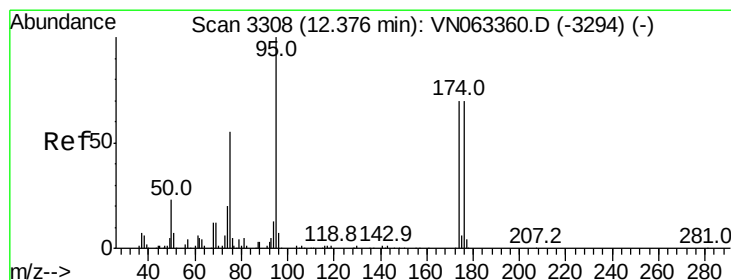
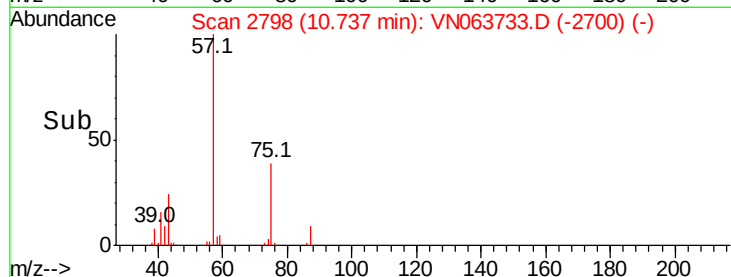
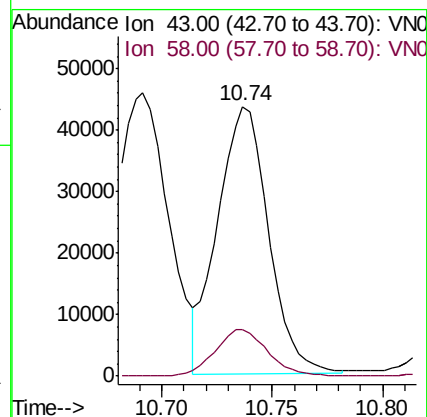
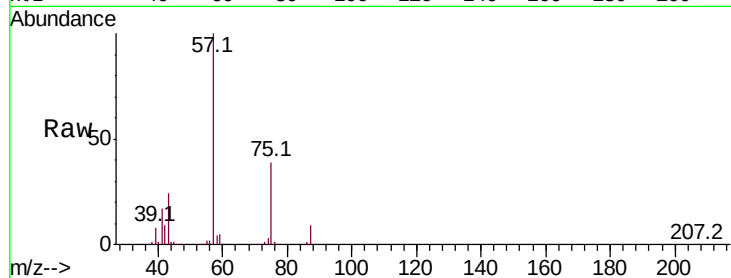
EO-01-092820

Tot Ion: 43 Resp: 69813

Ion Ratio Lower Upper

43 100

58 17.9 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 54.703 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063733.D

Acq: 29 Sep 2020 17:52

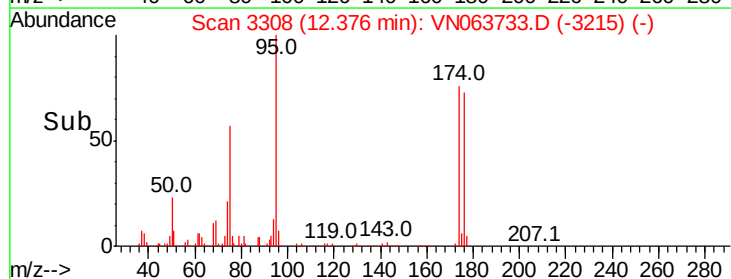
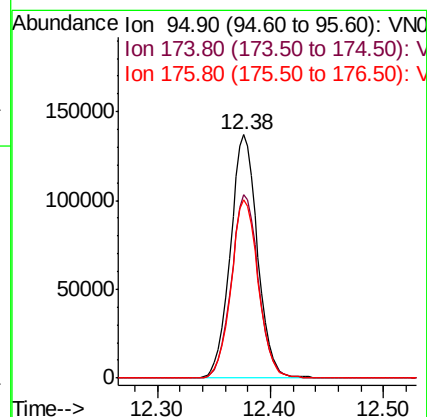
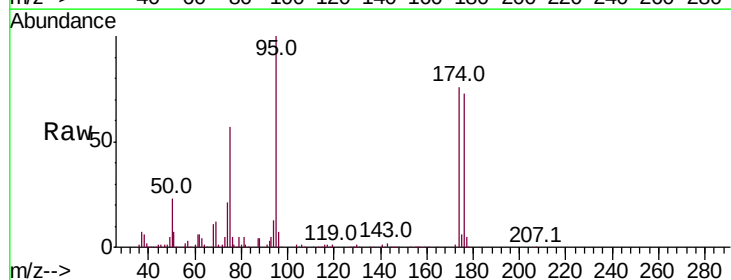
Tgt Ion: 95 Resp: 228143

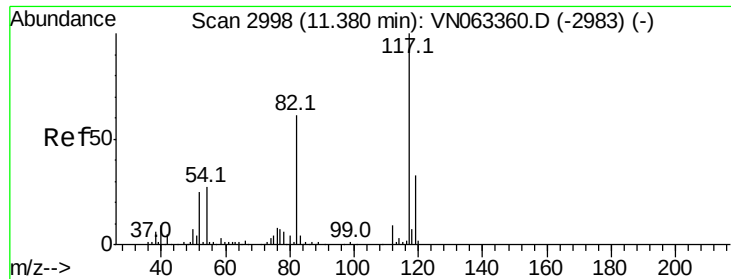
Ion Ratio Lower Upper

95 100

174 75.3 0.0 140.8

176 73.7 0.0 137.6

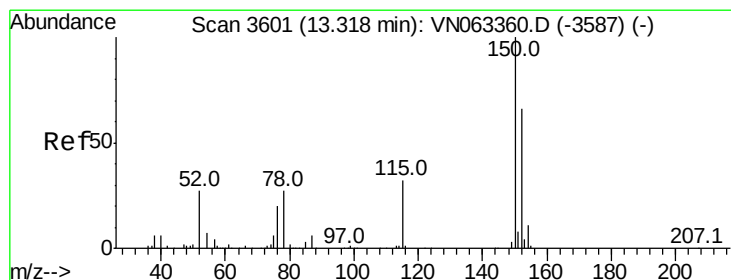
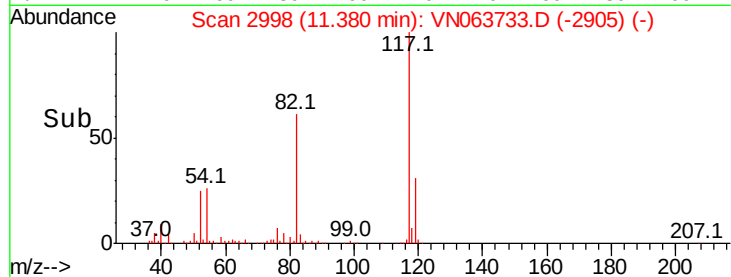
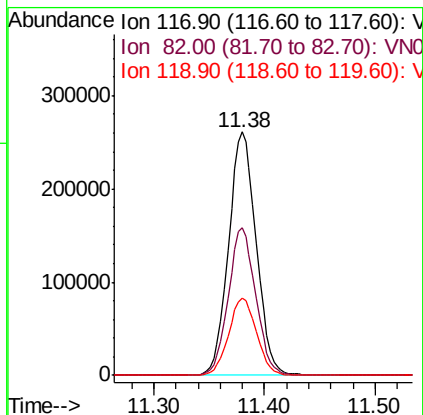
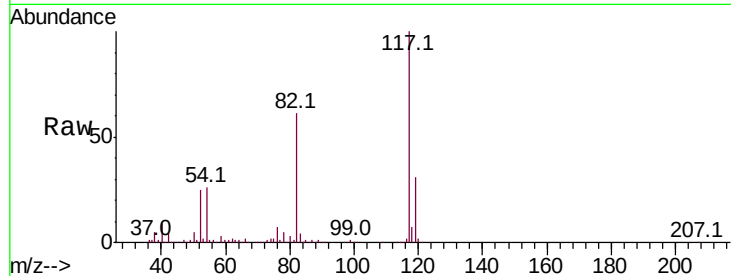




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063733.D
Acq: 29 Sep 2020 17:52

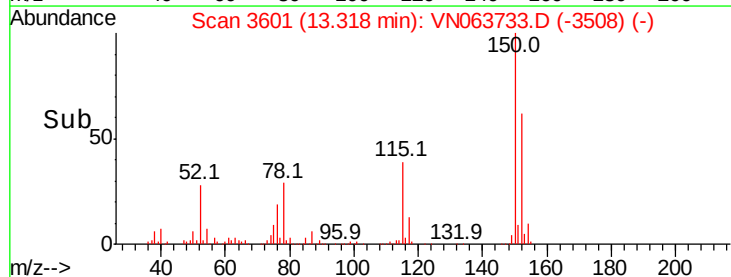
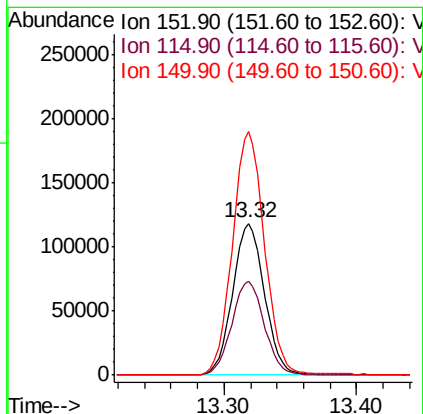
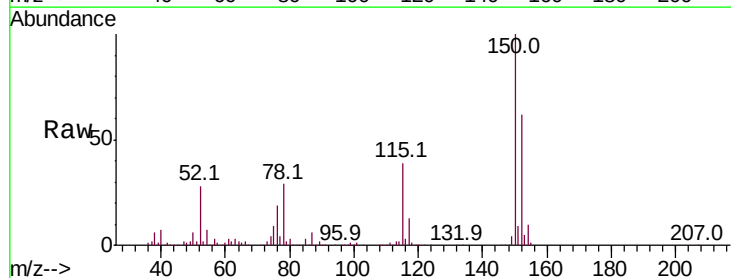
Instrument :
MSVOA_N
ClientSampleId :
EO-01-092820

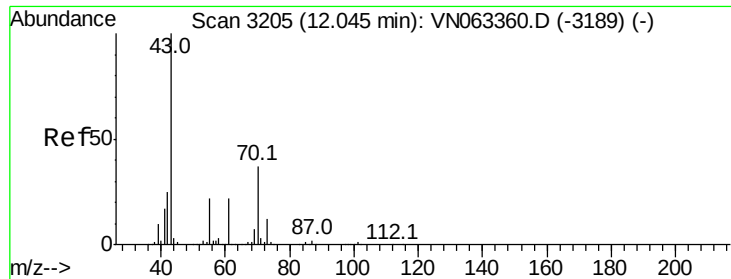
Tot Ion	Ratio	Lower	Upper
117	100		
82	60.9	49.2	73.8
119	31.5	26.2	39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063733.D
Acq: 29 Sep 2020 17:52

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.1	32.2	96.6
150	161.9	0.0	343.4





#74

N-amyl acetate

Concen: 0.385 ug/l

RT: 12.00 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN063733.D

Acq: 29 Sep 2020 17:52

Instrument :

MSVOA_N

ClientSampled :

EO-01-092820

Tot Ion: 43 Resp: 2883

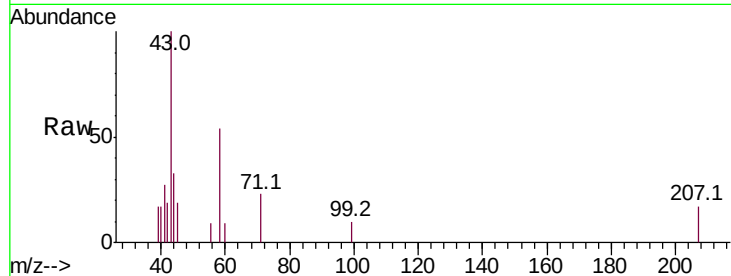
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 5.4 17.7 26.5#

61 0.0 17.4 26.2#

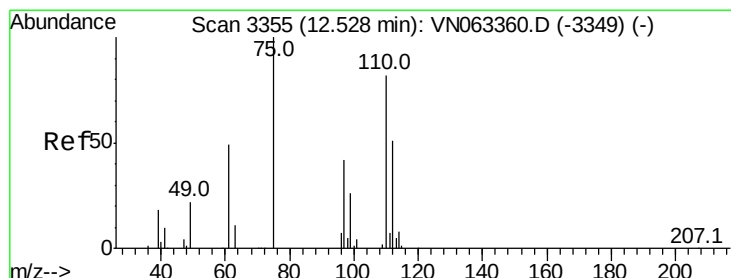
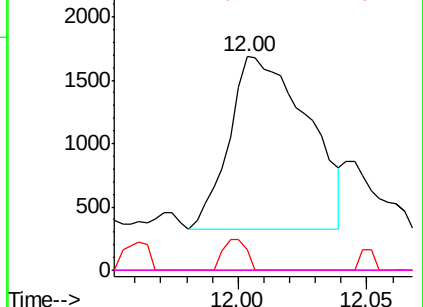
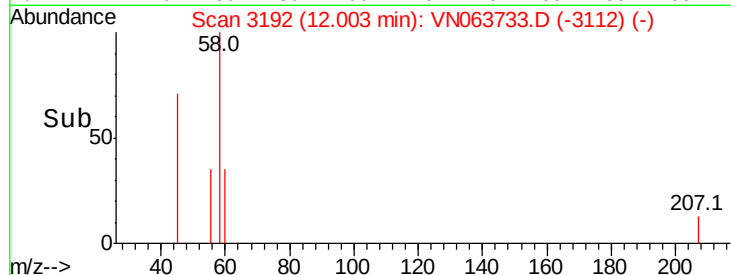


Abundance Ion 43.00 (42.70 to 43.70): VN0

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



#76

1,2,3-Trichloropropane

Concen: 27.088 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063733.D

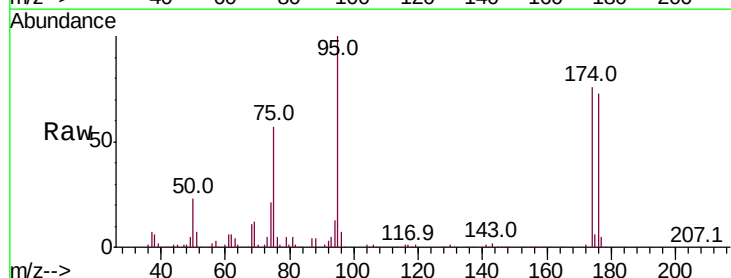
Acq: 29 Sep 2020 17:52

Tgt Ion: 75 Resp: 132338

Ion Ratio Lower Upper

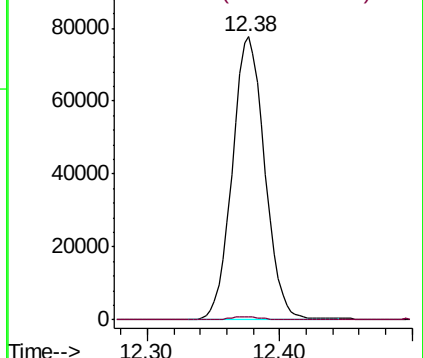
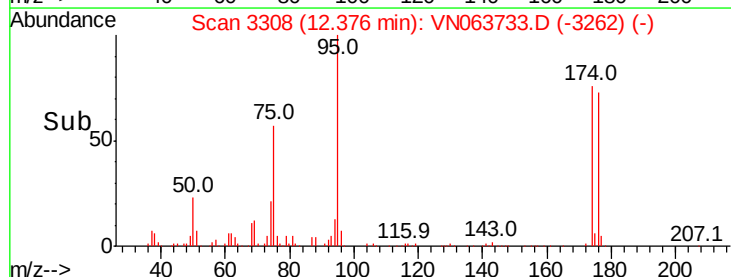
75 100

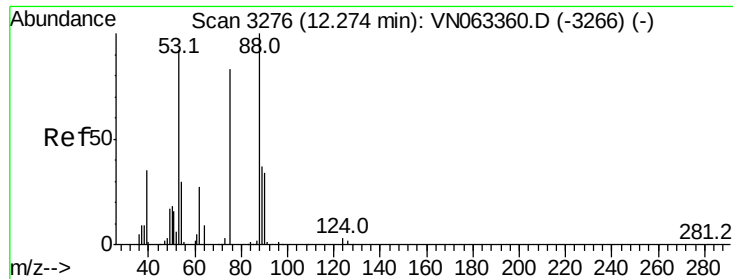
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 74.265 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063733.D

Acq: 29 Sep 2020 17:52

Instrument :

MSVOA_N

ClientSampleId :

EO-01-092820

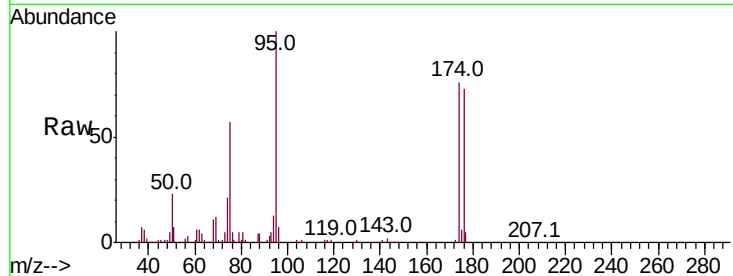
Tot Ion: 75 Resp: 132338

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

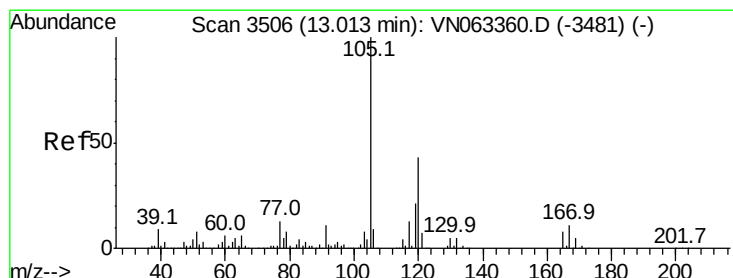
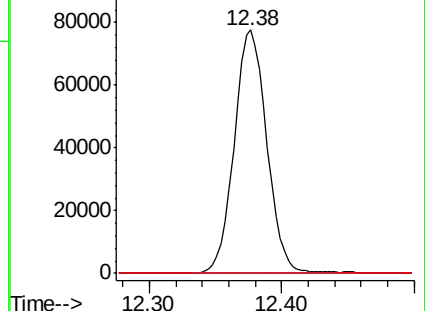
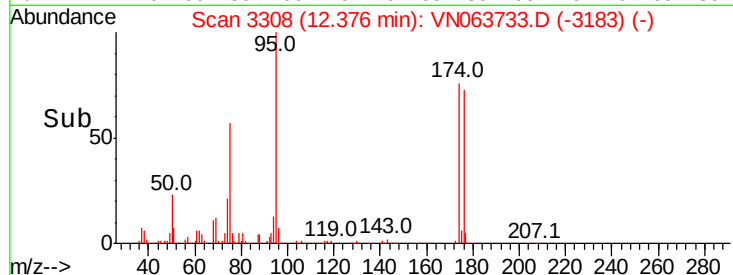
89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VN063733.D (-3308) (-)

Ion 53.00 (52.70 to 53.70): VN063733.D (-3308) (-)

Ion 88.90 (88.60 to 89.60): VN063733.D (-3308) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.267 ug/l

RT: 13.02 min Scan# 3507

Delta R.T. 0.00 min

Lab File: VN063733.D

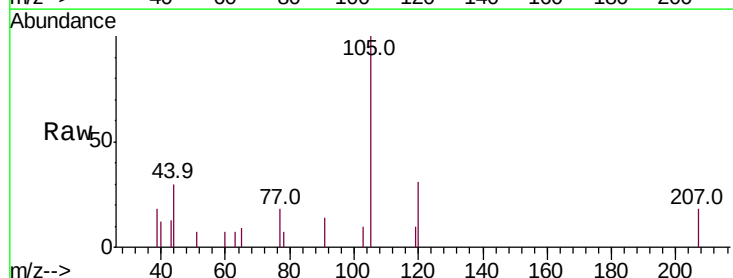
Acq: 29 Sep 2020 17:52

Tgt Ion: 105 Resp: 3558

Ion Ratio Lower Upper

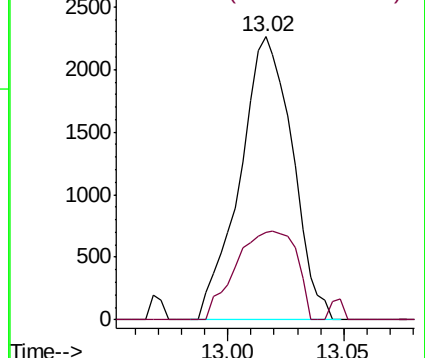
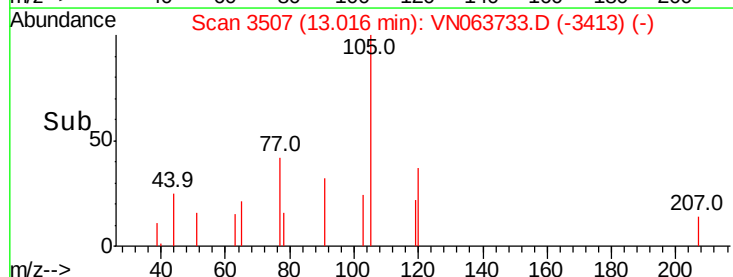
105 100

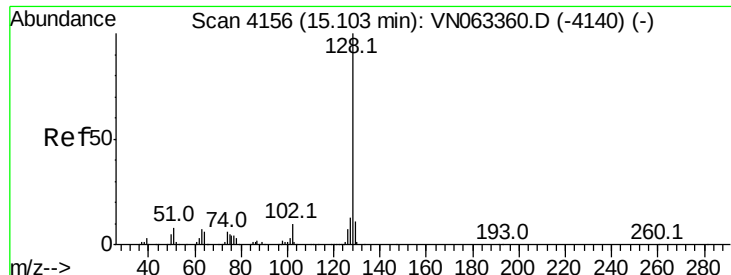
120 36.0 21.3 63.9



Abundance Ion 105.00 (104.70 to 105.70): VN063733.D (-3507) (-)

Ion 120.00 (119.70 to 120.70): VN063733.D (-3507) (-)





#95

Naphthalene

Concen: 0.478 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN063733.D

Acq: 29 Sep 2020 17:52

Instrument :

MSVOA_N

ClientSampleId :

EO-01-092820

Tot Ion:128 Resp: 6025

Ion Ratio Lower Upper

128 100

127 9.1 10.6 15.8#

129 10.4 8.8 13.2

