

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100120\
 Data File : VN063775.D
 Acq On : 1 Oct 2020 16:34
 Operator : JC/MD
 Sample : PB131943TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131943TB

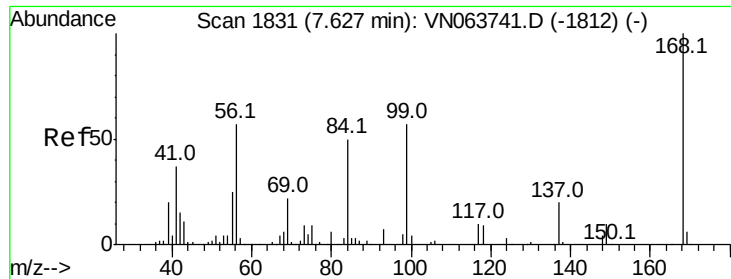
Quant Time: Oct 02 02:15:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	215573	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	396411	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	419068	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	171947	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	183632	51.56	ug/l	0.00
Spiked Amount			Recovery	=	103.12%	
35) Dibromofluoromethane	7.55	113	132815	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	
50) Toluene-d8	10.06	98	519951	49.86	ug/l	0.00
Spiked Amount			Recovery	=	99.72%	
62) 4-Bromofluorobenzene	12.38	95	212195	54.14	ug/l	0.00
Spiked Amount			Recovery	=	108.28%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	1400	3.561	ug/l #	88
16) Acetone	3.78	43	16771	15.298	ug/l	91
18) Methyl Acetate	4.29	43	2388	0.839	ug/l #	63
20) Methylene Chloride	4.51	84	20515	8.252	ug/l	96
25) 2-Butanone	6.79	43	13485	8.676	ug/l	91
29) Tetrahydrofuran	7.18	42	1797	1.724	ug/l #	64
31) Cyclohexane	7.63	56	5778	1.397	ug/l #	23
36) 1,1-Dichloropropene	7.62	75	19869	4.947	ug/l #	52
37) Ethyl Acetate	6.90	43	1484	0.372	ug/l #	70
38) Carbon Tetrachloride	7.63	117	24894	5.528	ug/l #	15
43) Isopropyl Acetate	8.13	43	67368	10.236	ug/l	98
45) 1,2-Dichloropropane	9.23	63	1167	0.377	ug/l #	44
48) Methyl methacrylate	9.15	41	5376	1.653	ug/l #	12
51) 4-Methyl-2-Pentanone	9.96	43	7245	1.876	ug/l	90
54) cis-1,3-Dichloropropene	9.88	75	26319	5.330	ug/l #	60
56) Ethyl methacrylate	10.51	69	1467	0.364	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	4097	0.851	ug/l #	43
59) 2-Hexanone	10.74	43	78495	27.359	ug/l #	57
74) N-amyl acetate	12.01	43	4872	3.015	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	119241	31.459	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3679	0.350	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.38	75	119241	90.606	ug/l #	6
93) 1,2,4-Trichlorobenzene	14.76	180	29	1.746	ug/l #	12
95) Naphthalene	15.12	128	280	1.953	ug/l #	69

(#) = 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: VN063775.D

Acq: 1 Oct 2020 16:34

Instrument :

MSVOA_N

ClientSampleId :

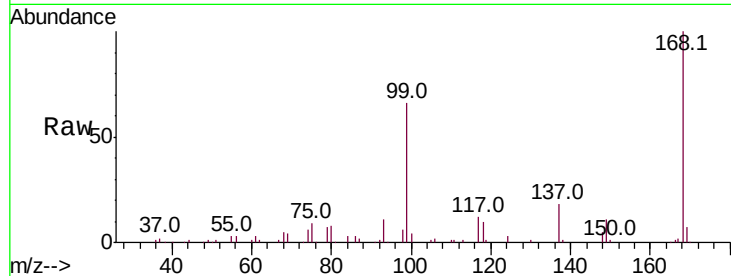
PB131943TB

Tot Ion:168 Resp: 215573

Ion Ratio Lower Upper

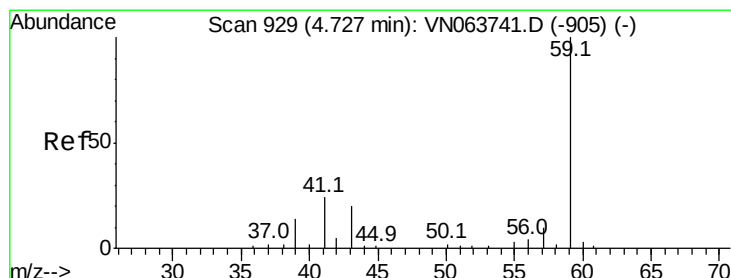
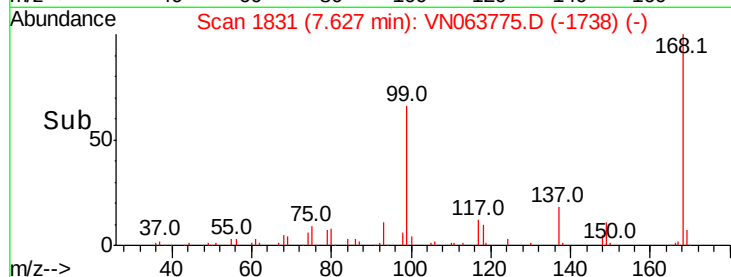
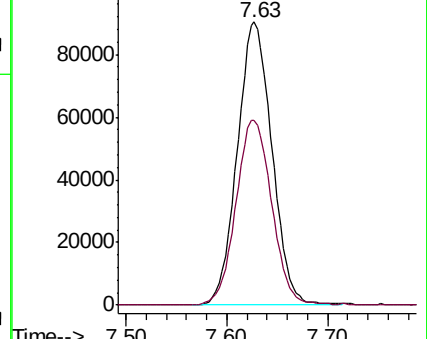
168 100

99 65.5 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 3.561 ug/l

RT: 4.73 min Scan# 931

Delta R.T. 0.01 min

Lab File: VN063775.D

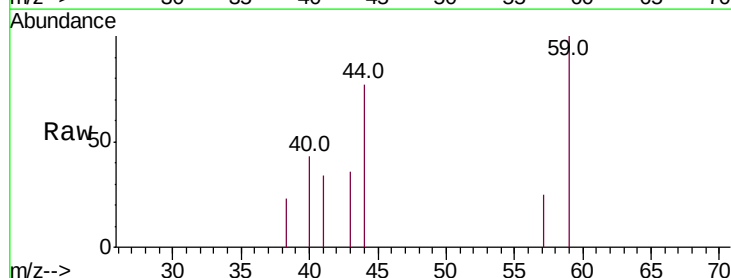
Acq: 1 Oct 2020 16:34

Tgt Ion: 59 Resp: 1400

Ion Ratio Lower Upper

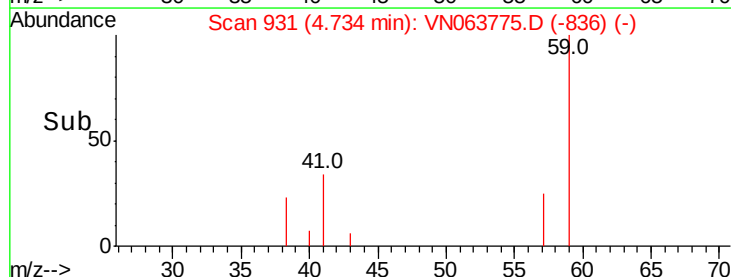
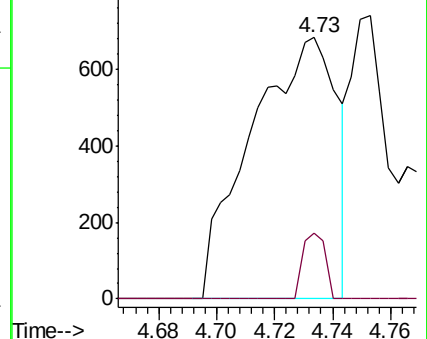
59 100

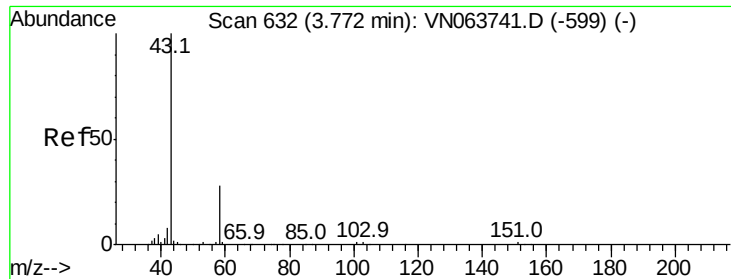
57 6.5 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 15.298 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN063775.D

Acq: 1 Oct 2020 16:34

Instrument :

MSVOA_N

ClientSampleId :

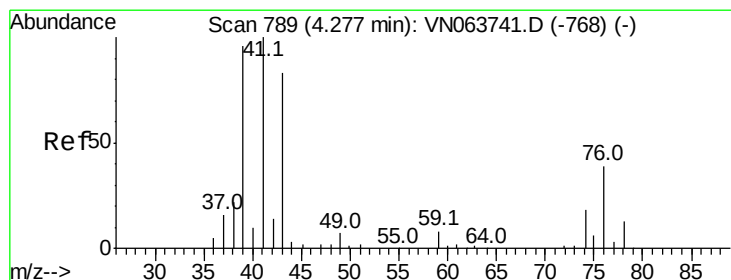
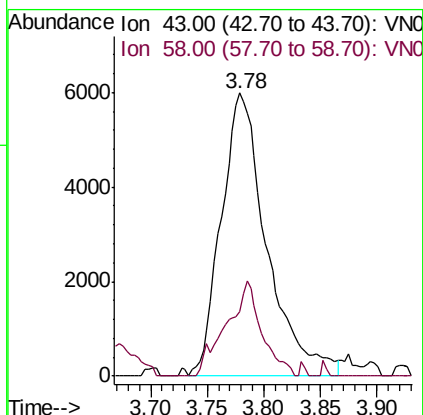
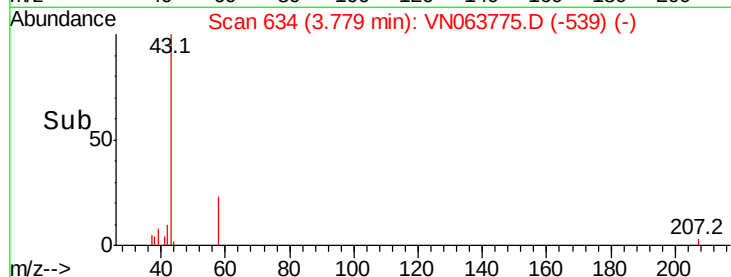
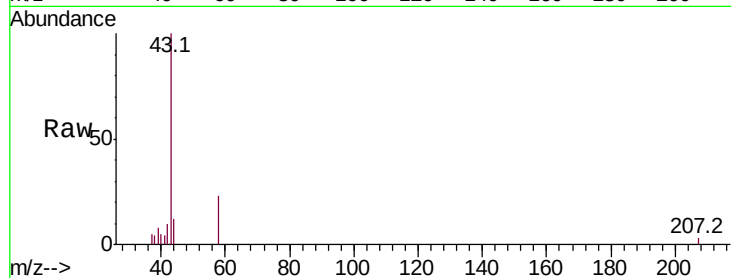
PB131943TB

Tot Ion: 43 Resp: 16771

Ion Ratio Lower Upper

43 100

58 22.9 22.3 33.5



#18

Methyl Acetate

Concen: 0.839 ug/l

RT: 4.29 min Scan# 794

Delta R.T. 0.02 min

Lab File: VN063775.D

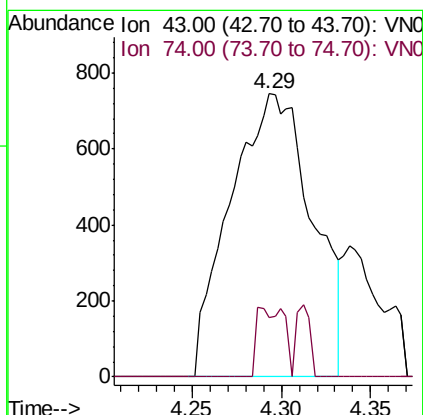
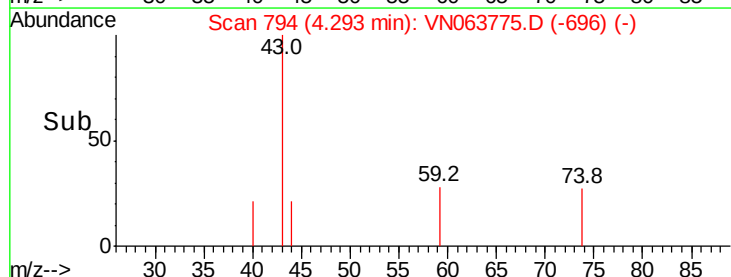
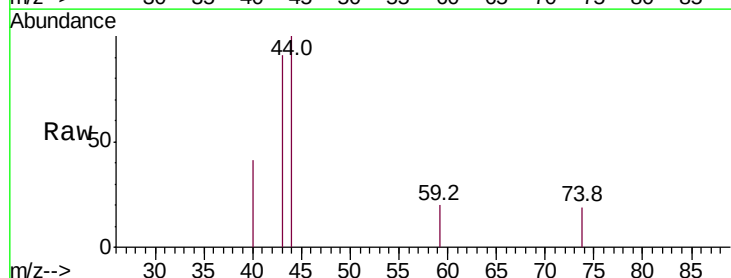
Acq: 1 Oct 2020 16:34

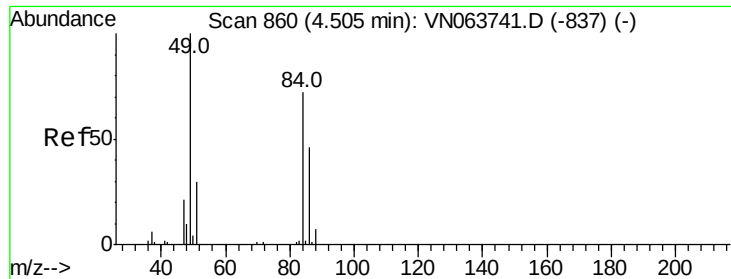
Tgt Ion: 43 Resp: 2388

Ion Ratio Lower Upper

43 100

74 4.2 17.4 26.2#

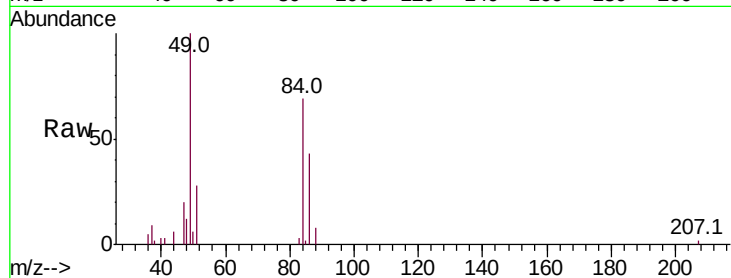




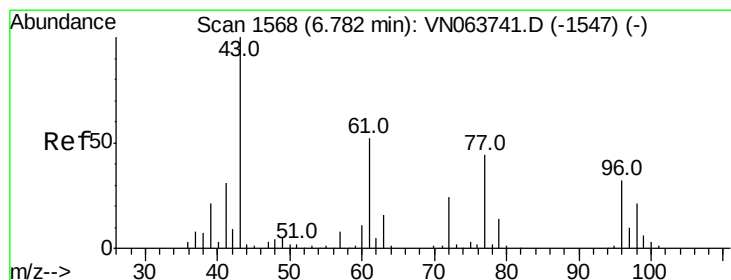
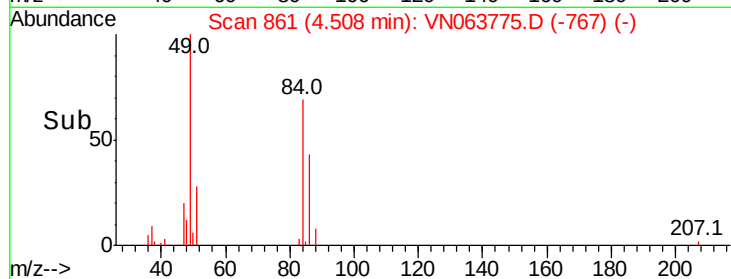
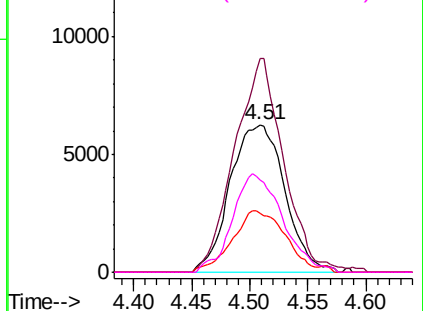
#20
Methvlene Chloride
Concen: 8.252 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.00 min
Lab File: VN063775.D
Acq: 1 Oct 2020 16:34

Instrument :
MSVOA_N
ClientSampled :
PB131943TB

Tot Ion:	84	Resp:	20515
Ion	Ratio	Lower	Upper
84	100		
49	144.6	110.4	165.6
51	40.0	33.3	49.9
86	62.8	50.7	76.1

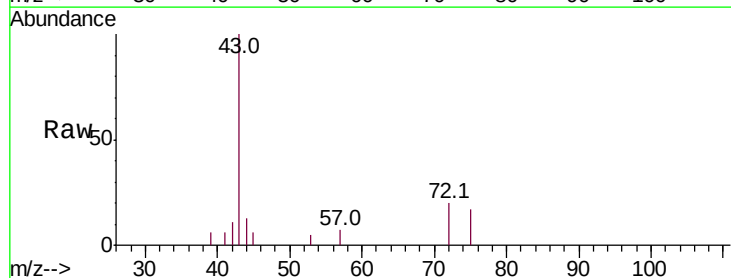


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

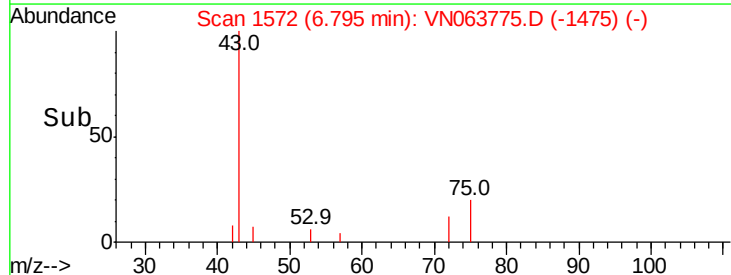
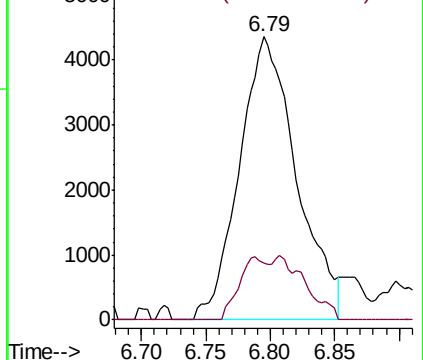


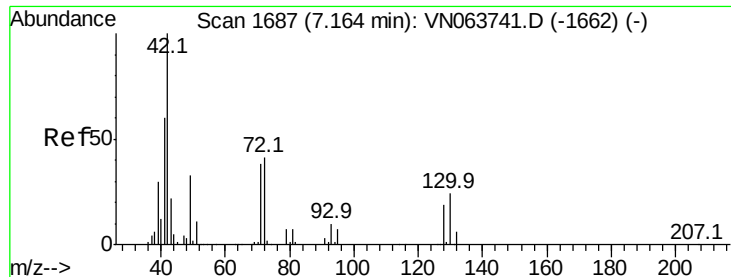
#25
2-Butanone
Concen: 8.676 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN063775.D
Acq: 1 Oct 2020 16:34

Tgt Ion:	43	Resp:	13485
Ion	Ratio	Lower	Upper
43	100		
72	19.9	19.3	28.9



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 72.00 (71.70 to 72.70): VNO





#29

Tetrahydrofuran

Concen: 1.724 ug/l

RT: 7.18 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VN063775.D

Acq: 1 Oct 2020 16:34

Instrument :

MSVOA_N

ClientSampleId :

PB131943TB

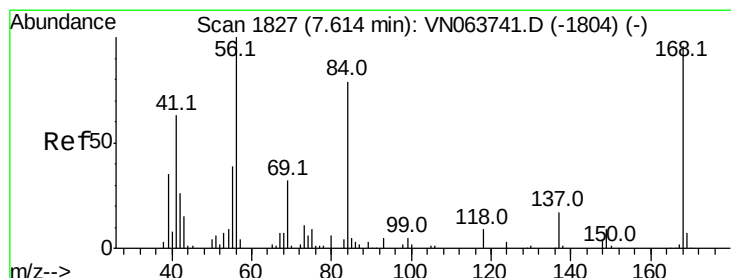
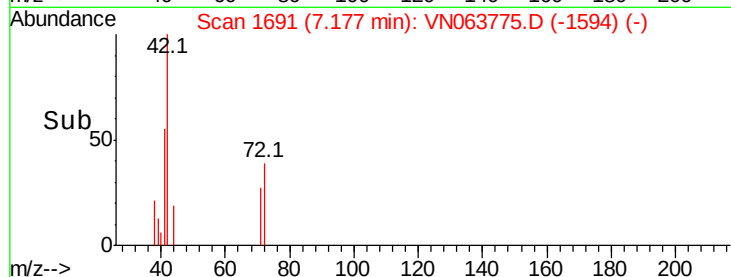
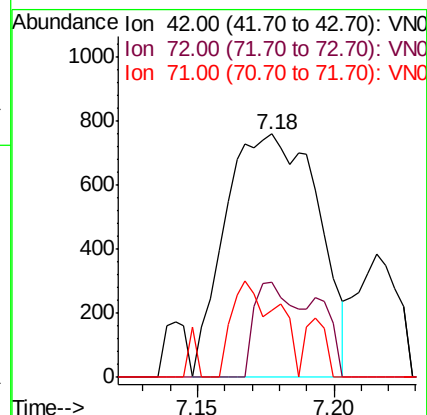
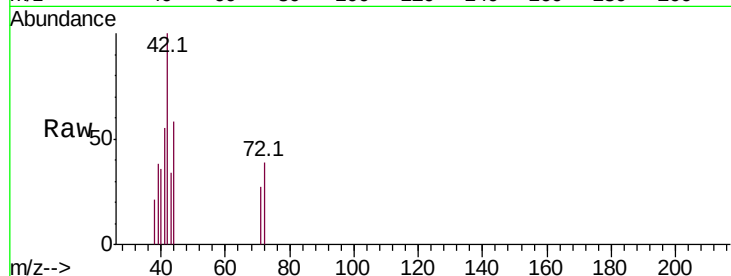
Tot Ion: 42 Resp: 1797

Ion Ratio Lower Upper

42 100

72 16.0 32.8 49.2#

71 19.1 30.6 45.8#



#31

Cyclohexane

Concen: 1.397 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063775.D

Acq: 1 Oct 2020 16:34

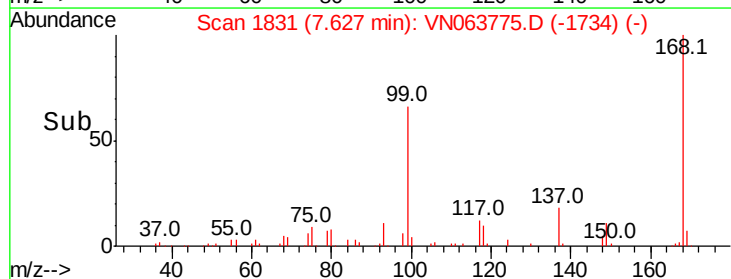
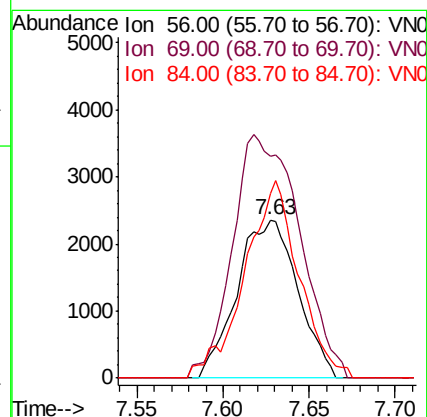
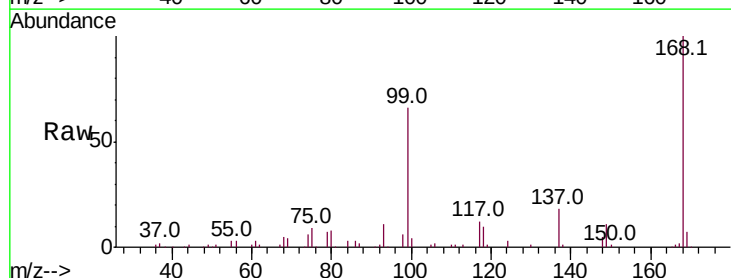
Tgt Ion: 56 Resp: 5778

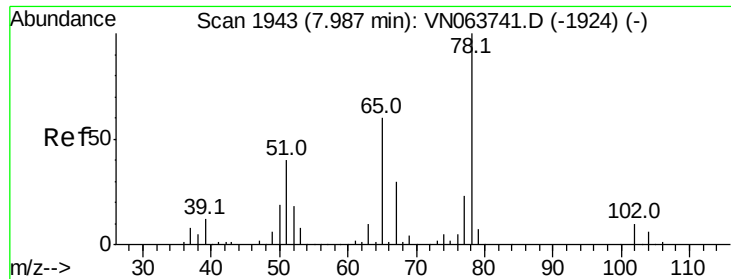
Ion Ratio Lower Upper

56 100

69 132.7 25.4 38.2#

84 109.8 63.3 94.9#

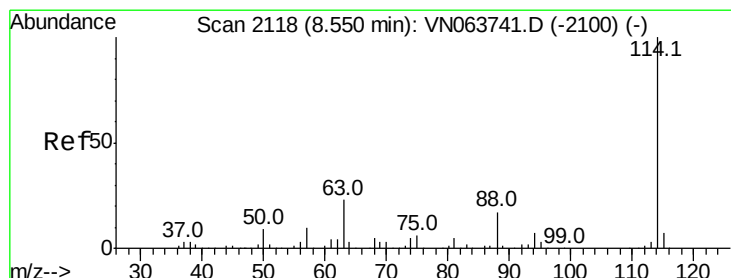
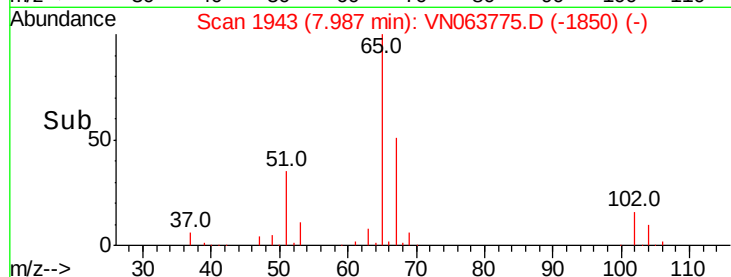
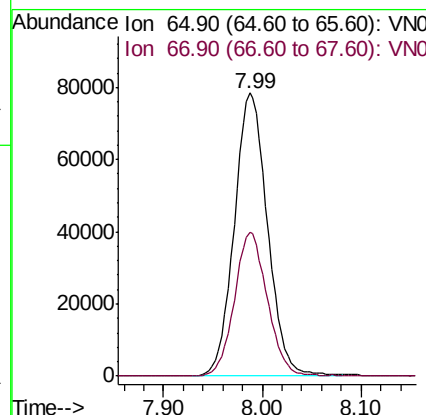
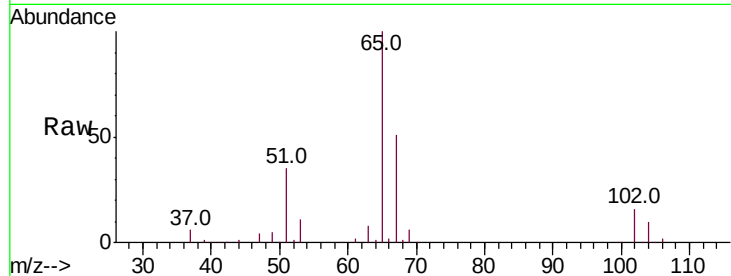




#33
 1,2-Dichloroethane-d4
 Concen: 51.562 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN063775.D
 Acq: 1 Oct 2020 16:34

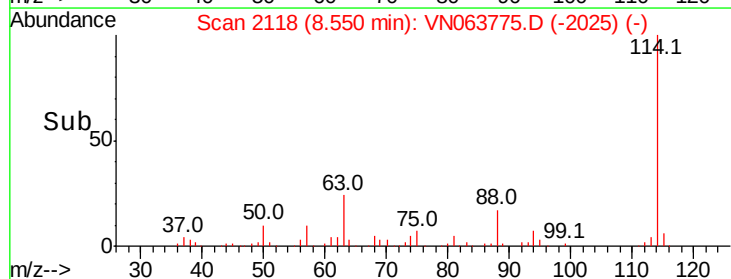
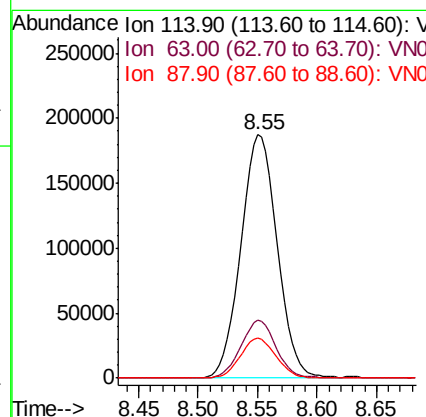
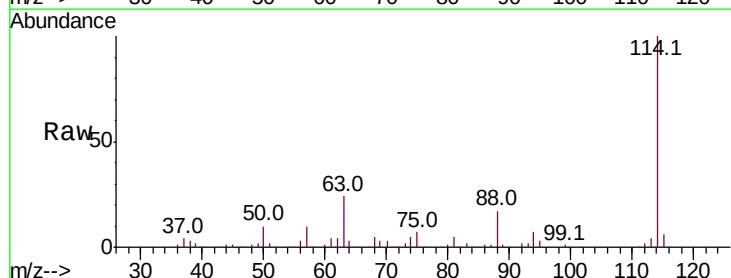
Instrument :
 MSVOA_N
 ClientSampleId :
 PB131943TB

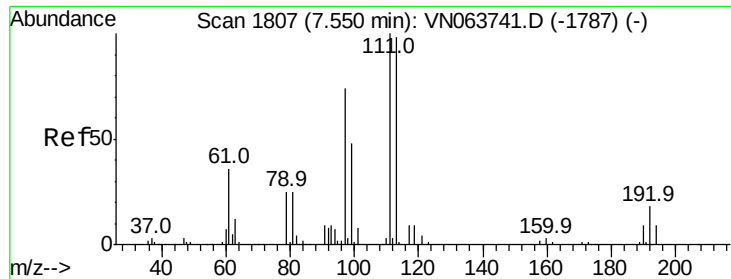
Tot Ion: 65 Resp: 183632
 Ion Ratio Lower Upper
 65 100
 67 50.3 0.0 99.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063775.D
 Acq: 1 Oct 2020 16:34

Tgt Ion: 114 Resp: 396411
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 45.0
 88 16.5 0.0 34.0

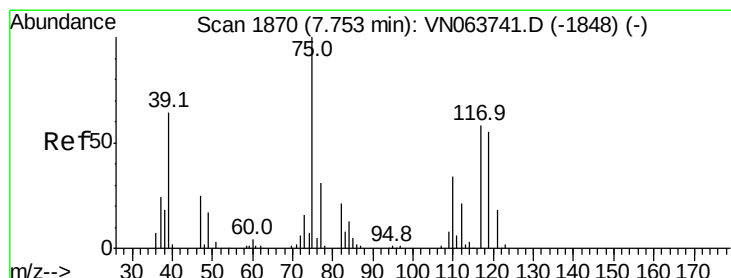
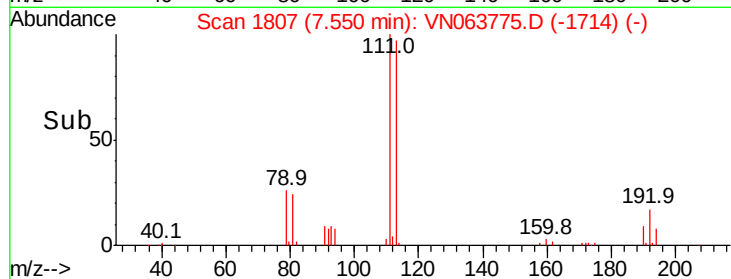
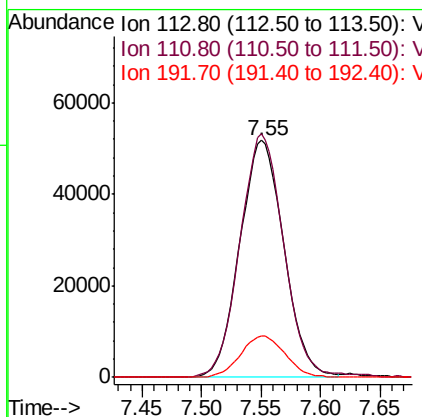
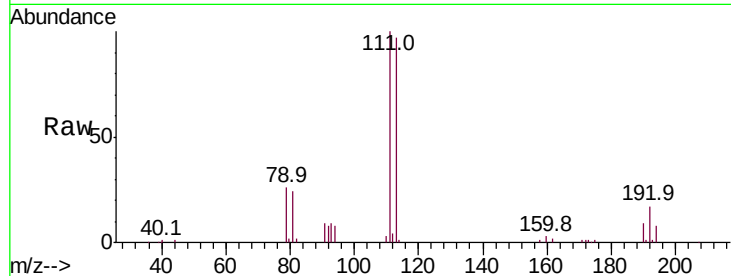




#35
 Dibromofluoromethane
 Concen: 48.286 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063775.D
 Acq: 1 Oct 2020 16:34

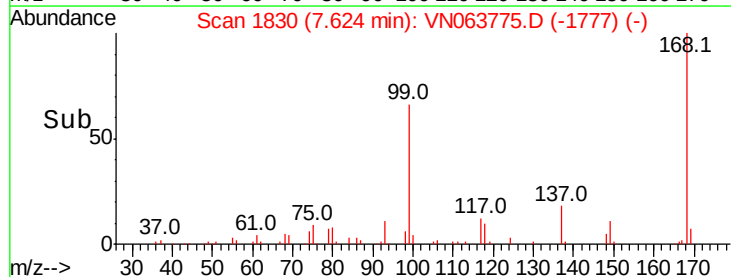
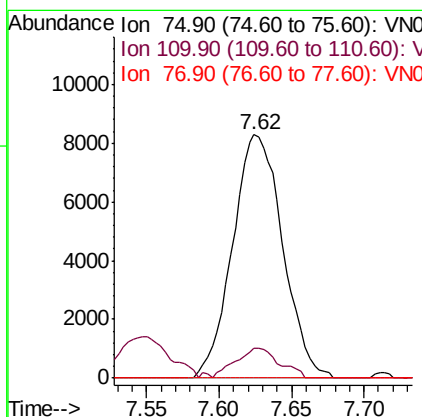
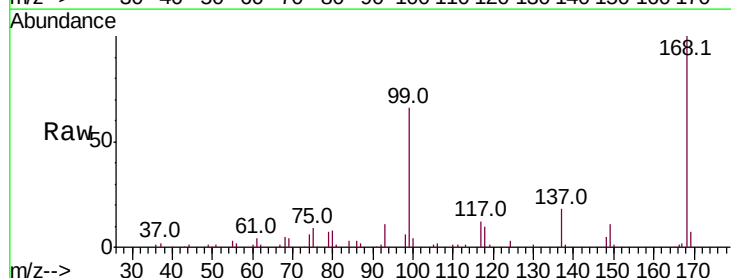
Instrument :
 MSVOA_N
 ClientSampleId :
 PB131943TB

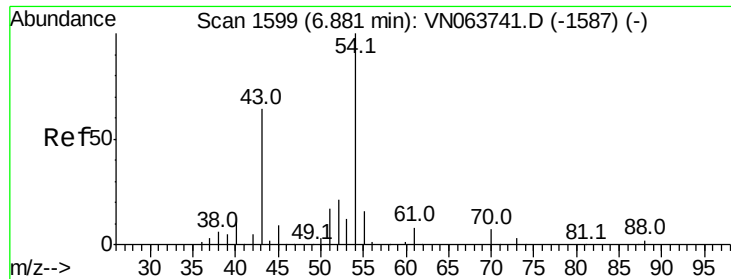
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.8	122.8
192	17.7	14.2	21.2



#36
 1,1-Dichloropropene
 Concen: 4.947 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063775.D
 Acq: 1 Oct 2020 16:34

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.8	16.9	50.6#
77	0.0	24.5	36.7#

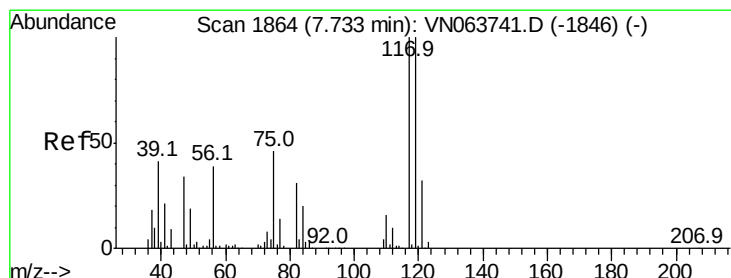
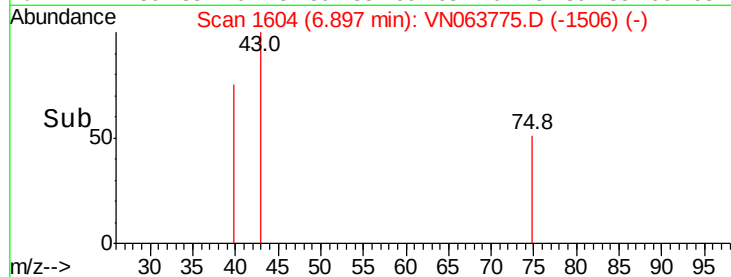
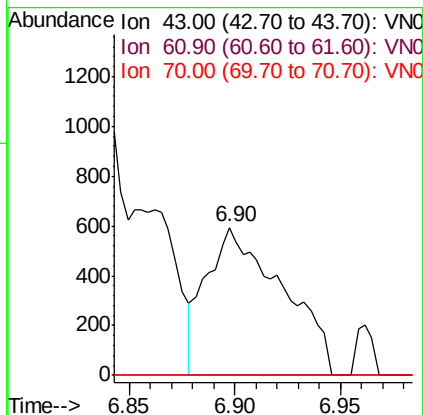
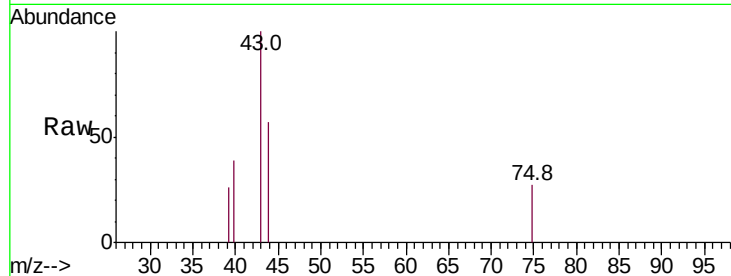




#37
Ethyl Acetate
Concen: 0.372 ug/l
RT: 6.90 min Scan# 1604
Delta R.T. 0.02 min
Lab File: VN063775.D
Acq: 1 Oct 2020 16:34

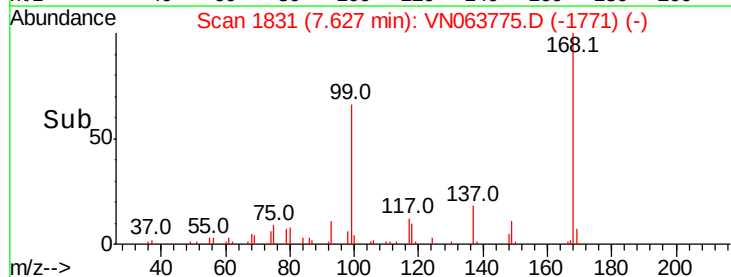
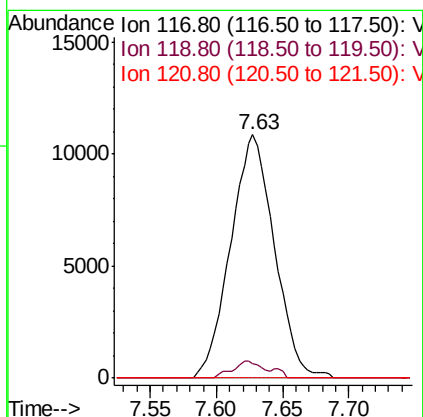
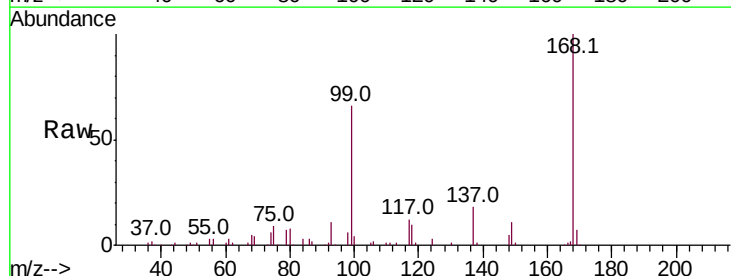
Instrument :
MSVOA_N
ClientSampled :
PB131943TB

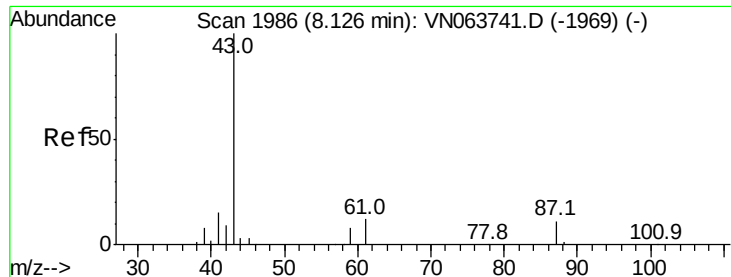
Tot Ion: 43 Resp: 1484
Ion Ratio Lower Upper
43 100
61 0.0 10.4 15.6#
70 0.0 7.3 10.9#



#38
Carbon Tetrachloride
Concen: 5.528 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN063775.D
Acq: 1 Oct 2020 16:34

Tgt Ion: 117 Resp: 24894
Ion Ratio Lower Upper
117 100
119 6.2 80.1 120.1#
121 0.0 25.7 38.5#





#43

Isopropyl Acetate

Concen: 10.236 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN063775.D

Acq: 1 Oct 2020 16:34

Instrument :

MSVOA_N

ClientSampleId :

PB131943TB

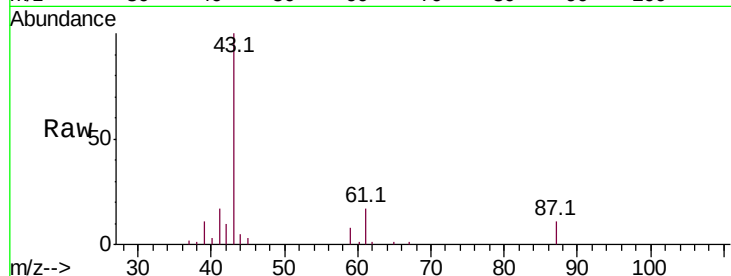
Tot Ion: 43 Resp: 67368

Ion Ratio Lower Upper

43 100

61 16.7 14.2 21.4

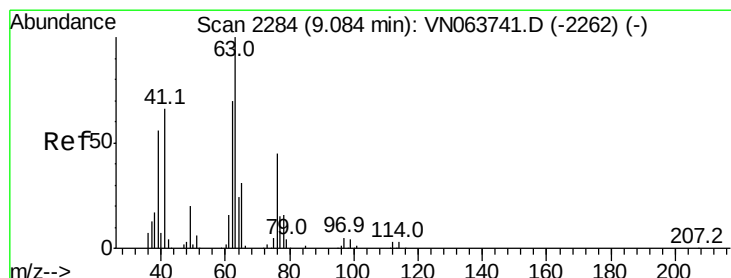
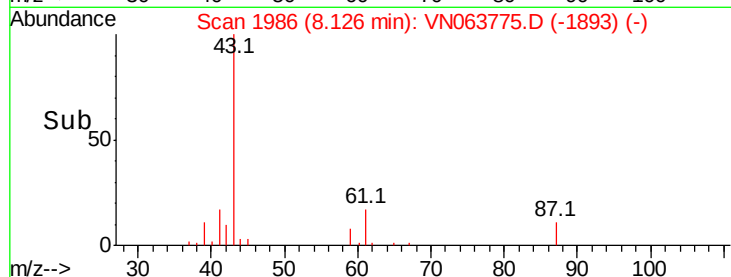
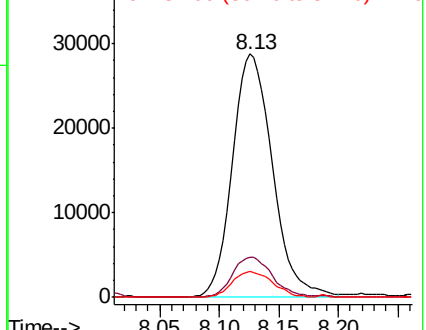
87 10.7 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN063775.D (-1986) (-)

Ion 61.00 (60.70 to 61.70): VN063775.D (-1986) (-)

Ion 87.00 (86.70 to 87.70): VN063775.D (-1986) (-)



#45

1,2-Dichloropropane

Concen: 0.377 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN063775.D

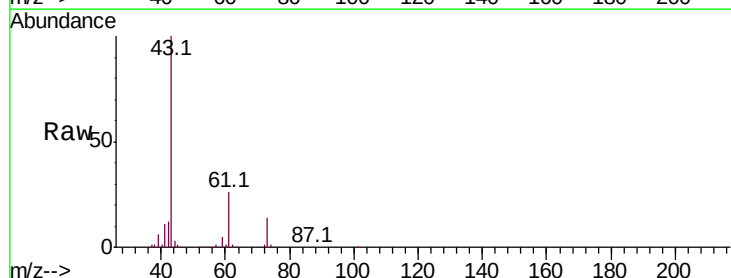
Acq: 1 Oct 2020 16:34

Tgt Ion: 63 Resp: 1167

Ion Ratio Lower Upper

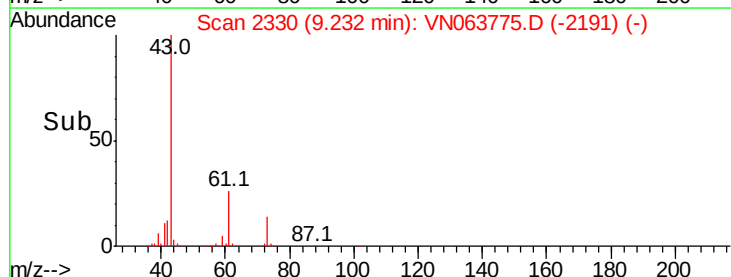
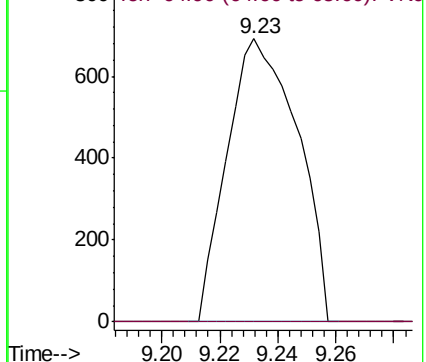
63 100

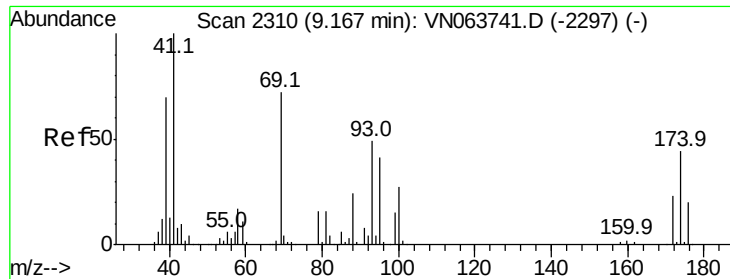
65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN063775.D (-2330) (-)

Ion 64.90 (64.60 to 65.60): VN063775.D (-2330) (-)

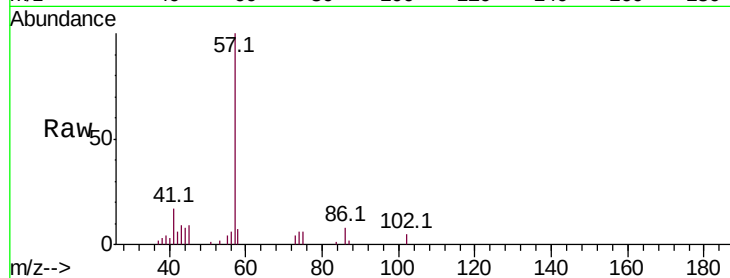




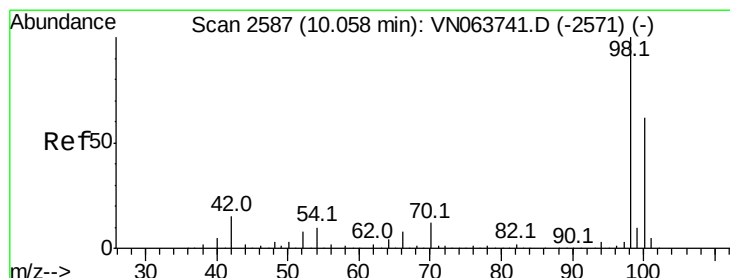
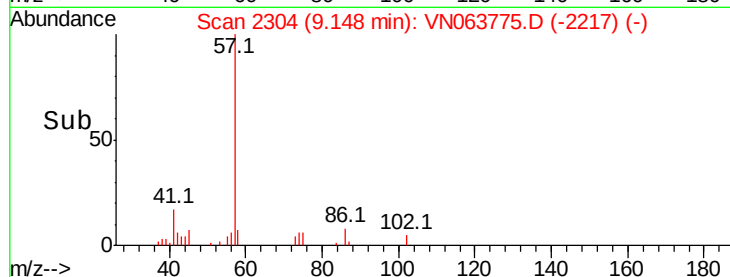
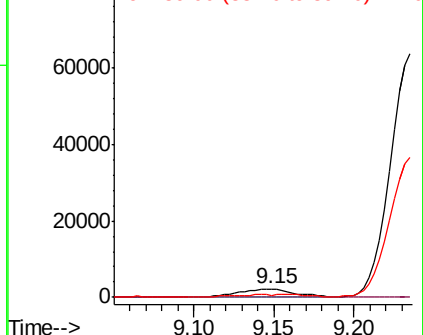
#48
Methvl methacrylate
Concen: 1.653 ug/l
RT: 9.15 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN063775.D
Acq: 1 Oct 2020 16:34

Instrument :
MSVOA_N
ClientSampleId :
PB131943TB

Tot Ion: 41 Resp: 5376
Ion Ratio Lower Upper
41 100
69 0.0 60.9 91.3#
39 0.0 57.5 86.3#

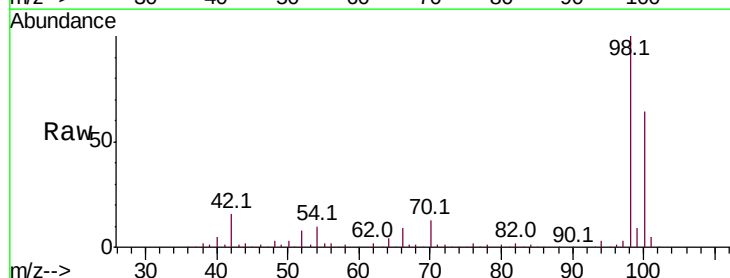


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

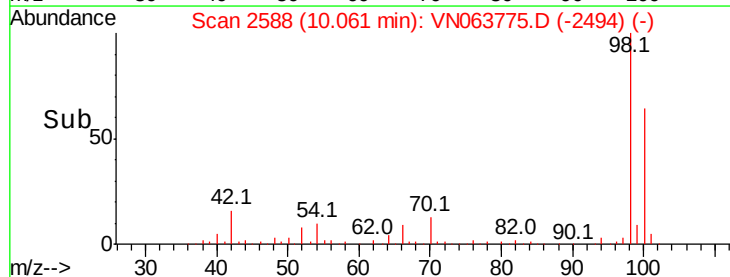
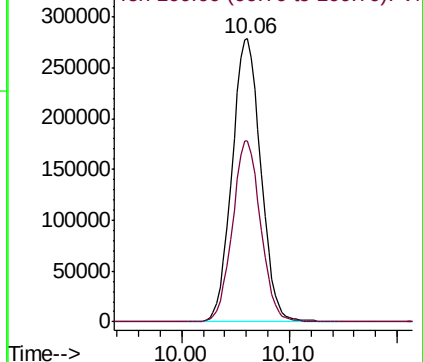


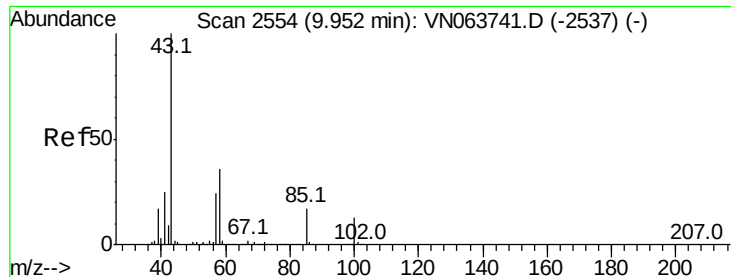
#50
Toluene-d8
Concen: 49.865 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063775.D
Acq: 1 Oct 2020 16:34

Tgt Ion: 98 Resp: 519951
Ion Ratio Lower Upper
98 100
100 62.6 49.8 74.6



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: 1.876 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063775.D

Acq: 1 Oct 2020 16:34

Instrument :

MSVOA_N

ClientSampleId :

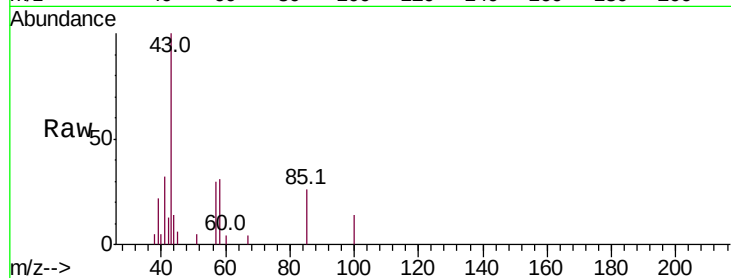
PB131943TB

Tot Ion: 43 Resp: 7245

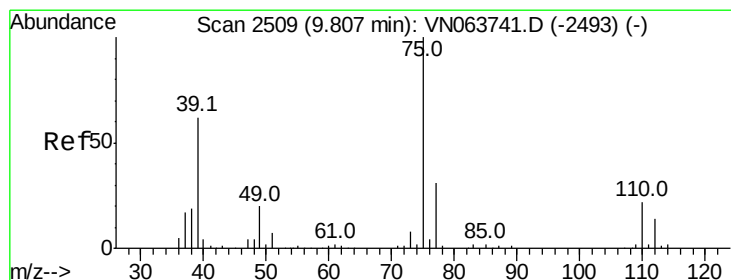
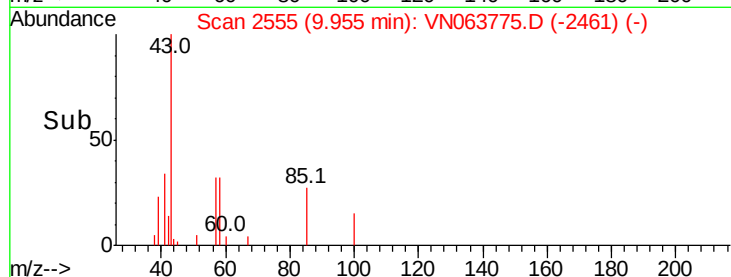
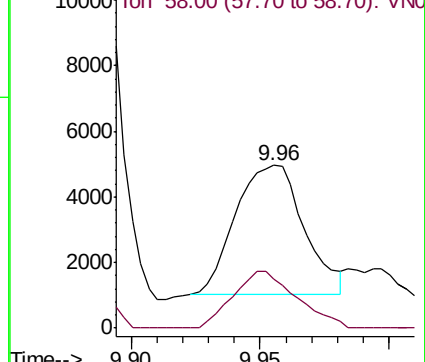
Ion Ratio Lower Upper

43 100

58 41.1 28.4 42.6



Abundance Ion 43.00 (42.70 to 43.70): VN063741.D (-2537) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.330 ug/l

RT: 9.88 min Scan# 2531

Delta R.T. 0.07 min

Lab File: VN063775.D

Acq: 1 Oct 2020 16:34

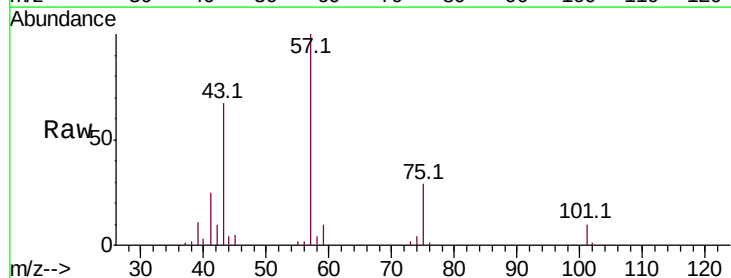
Tgt Ion: 75 Resp: 26319

Ion Ratio Lower Upper

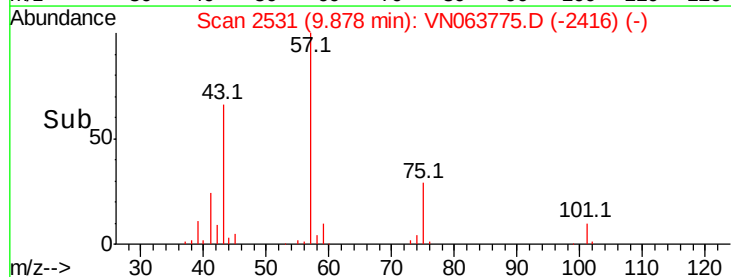
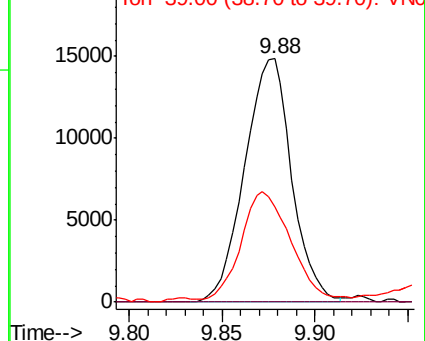
75 100

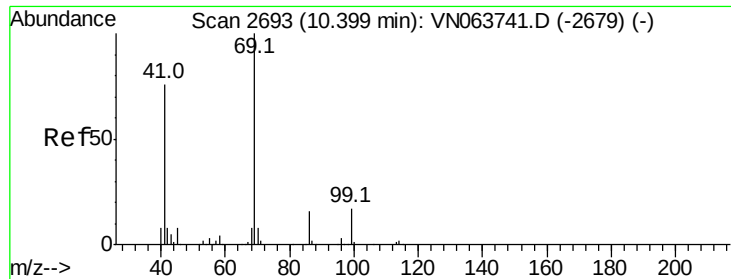
77 0.0 24.6 36.8#

39 38.0 49.7 74.5#



Abundance Ion 74.90 (74.60 to 75.60): VN063741.D (-2493) (-)





#56

Ethyl methacrylate

Concen: 0.364 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063775.D

Acq: 1 Oct 2020 16:34

Instrument :

MSVOA_N

ClientSampleId :

PB131943TB

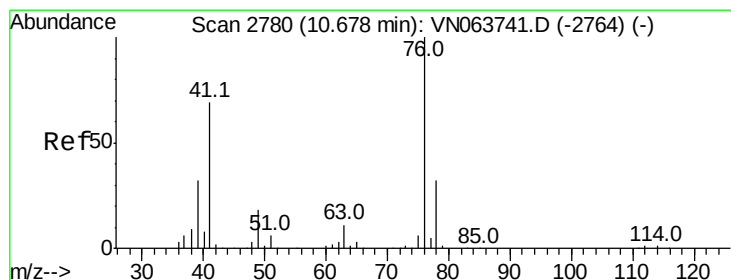
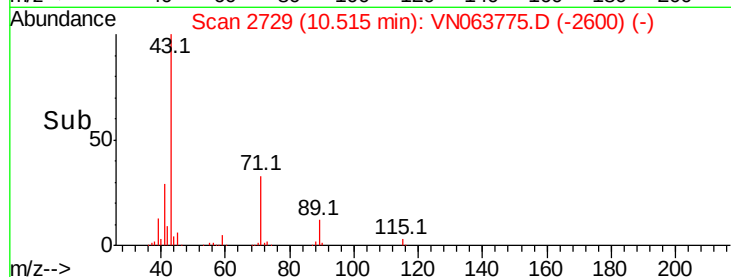
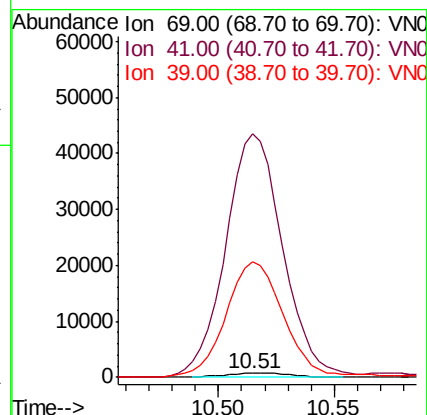
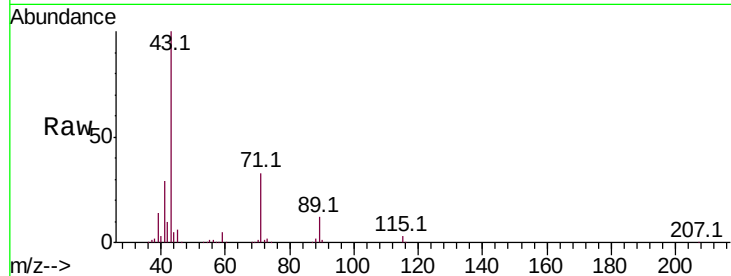
Tot Ion: 69 Resp: 1467

Ion Ratio Lower Upper

69 100

41 5086.8 61.1 91.7#

39 2461.6 42.2 63.4#



#57

1,3-Dichloropropane

Concen: 0.851 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN063775.D

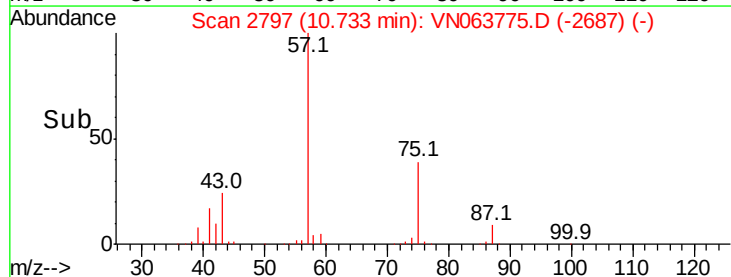
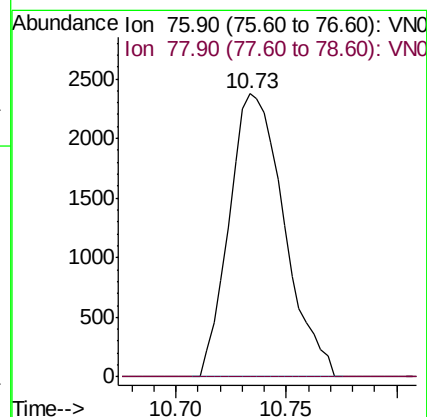
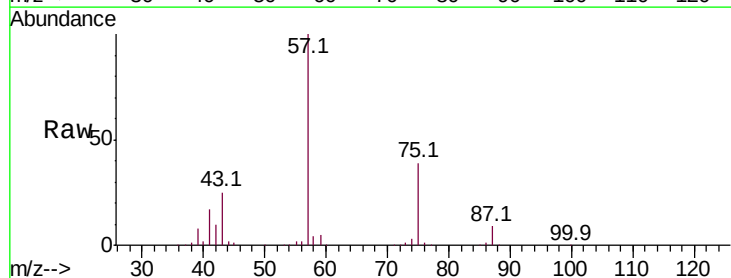
Acq: 1 Oct 2020 16:34

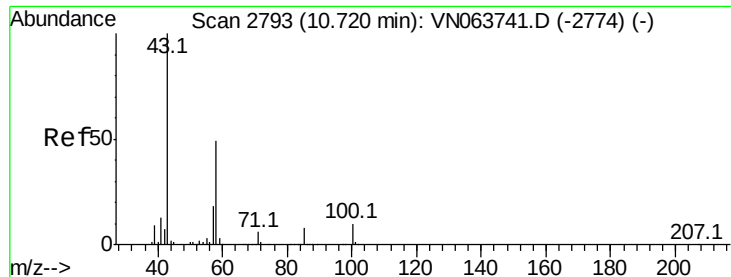
Tgt Ion: 76 Resp: 4097

Ion Ratio Lower Upper

76 100

78 0.0 25.2 37.8#

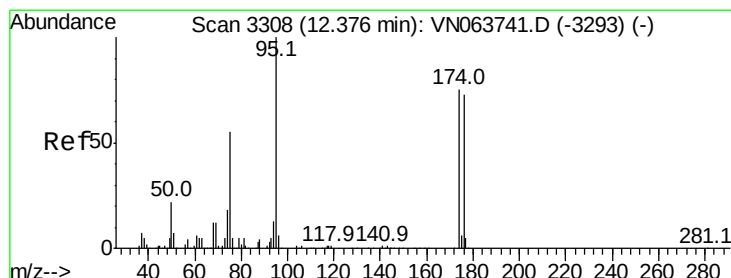
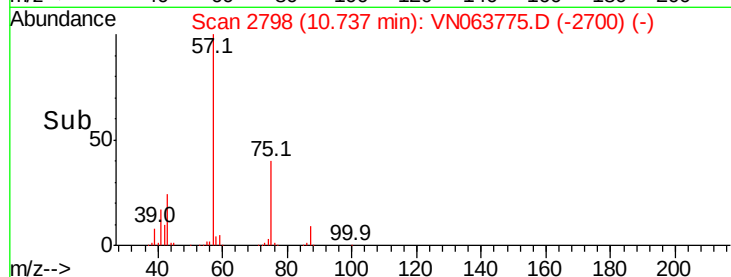
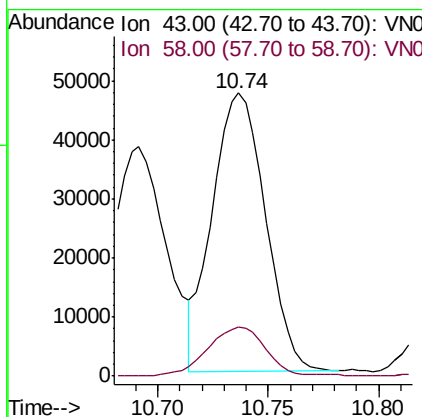
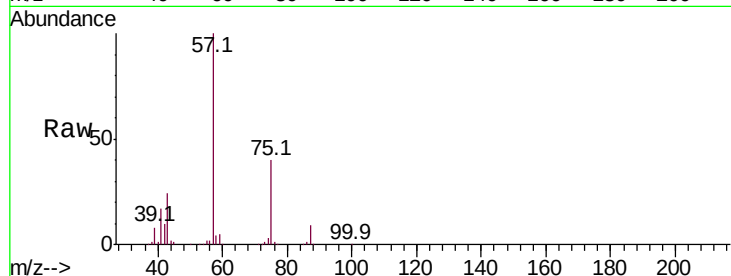




#59
2-Hexanone
Concen: 27.359 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN063775.D
Acq: 1 Oct 2020 16:34

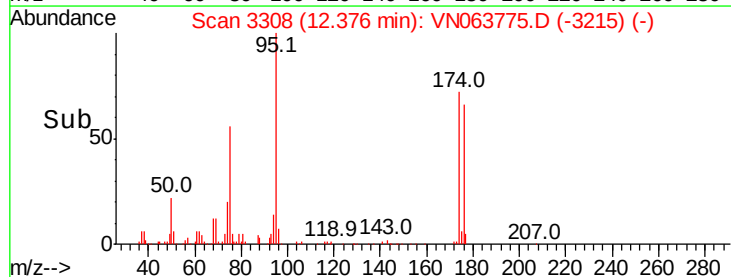
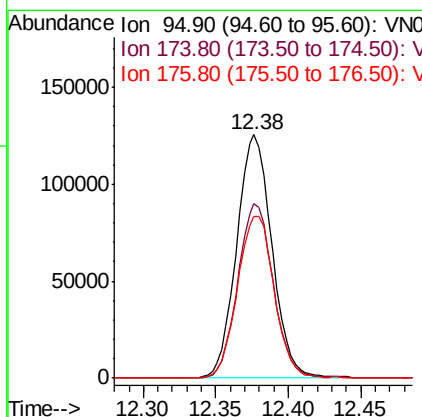
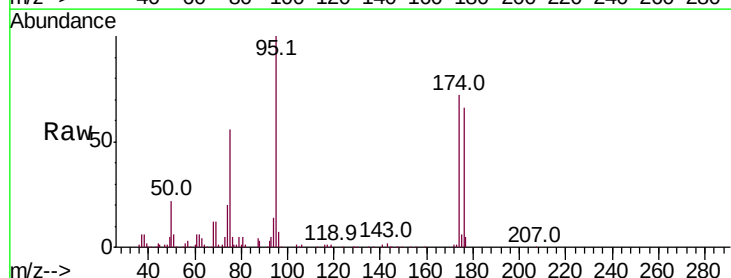
Instrument :
MSVOA_N
ClientSampled :
PB131943TB

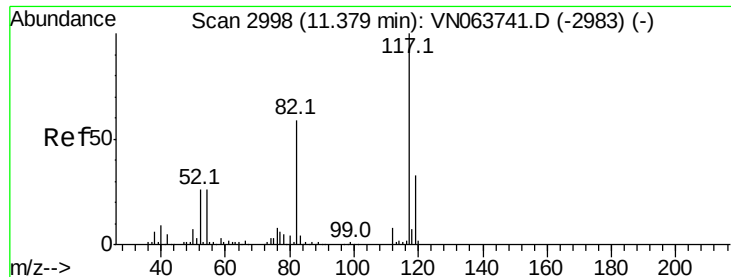
Tot Ion: 43 Resp: 78495
Ion Ratio Lower Upper
43 100
58 19.6 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 54.135 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN063775.D
Acq: 1 Oct 2020 16:34

Tgt Ion: 95 Resp: 212195
Ion Ratio Lower Upper
95 100
174 72.3 0.0 150.6
176 69.2 0.0 145.4

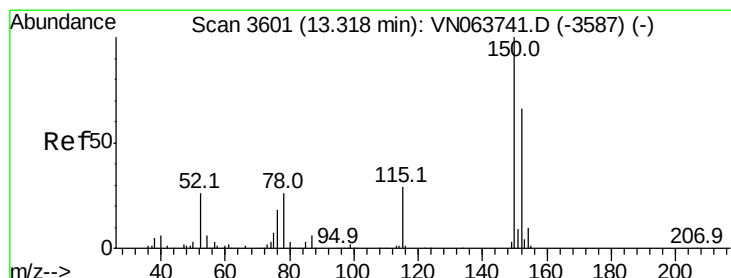
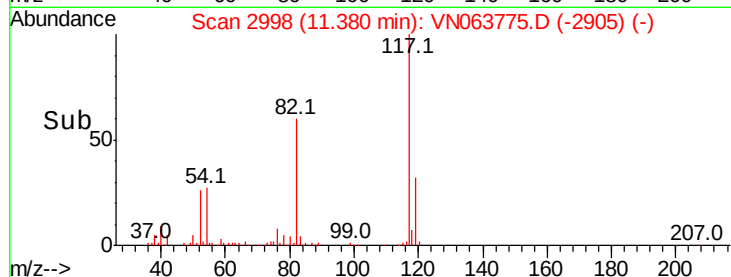
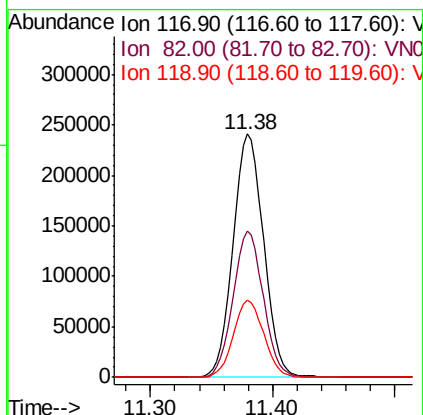
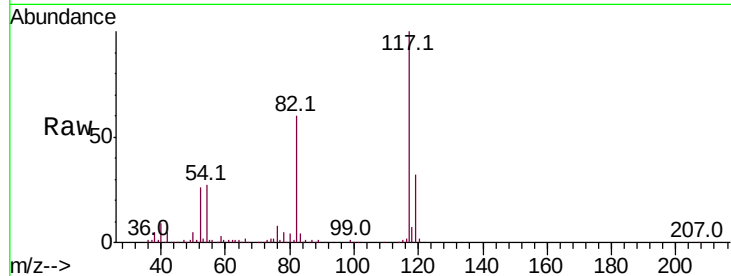




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063775.D
Acq: 1 Oct 2020 16:34

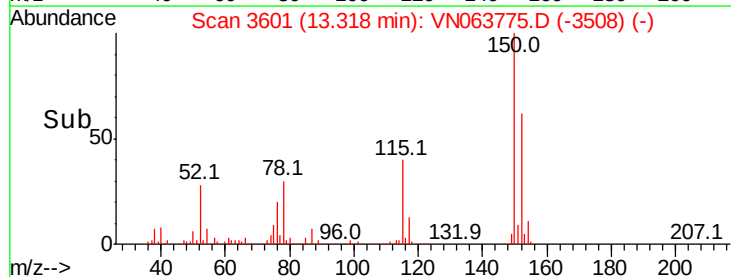
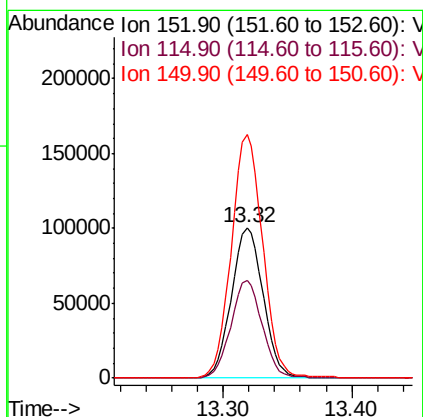
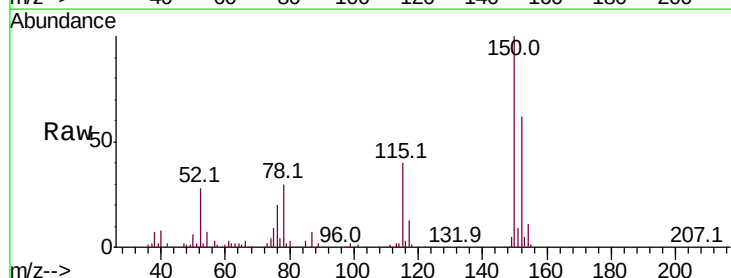
Instrument :
MSVOA_N
ClientSampled :
PB131943TB

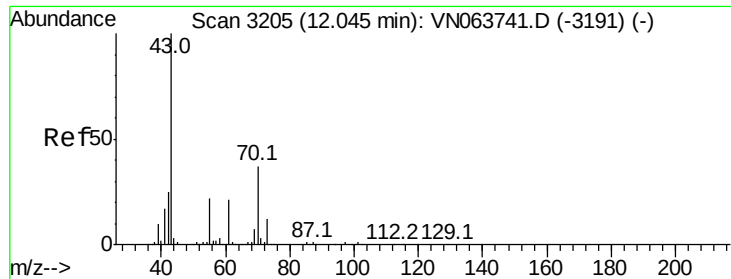
Tot Ion:117 Resp: 419068
Ion Ratio Lower Upper
117 100
82 60.2 47.4 71.2
119 31.6 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN063775.D
Acq: 1 Oct 2020 16:34

Tgt Ion:152 Resp: 171947
Ion Ratio Lower Upper
152 100
115 64.5 31.3 93.8
150 159.4 0.0 341.8





#74

N-amyl acetate

Concen: 3.015 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN063775.D

Acq: 1 Oct 2020 16:34

Instrument :

MSVOA_N

ClientSampled :

PB131943TB

Tot Ion: 43 Resp: 4872

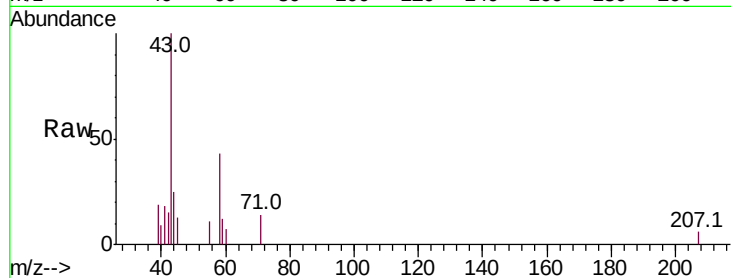
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 8.6 17.9 26.9#

61 0.0 17.0 25.4#



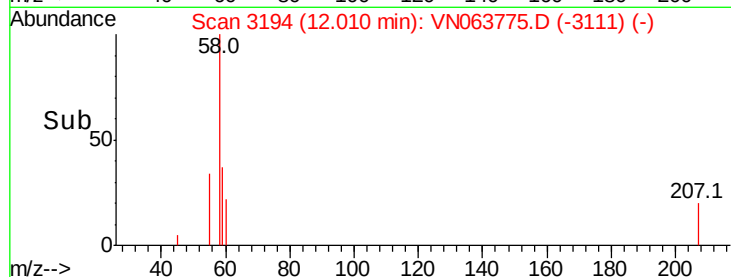
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

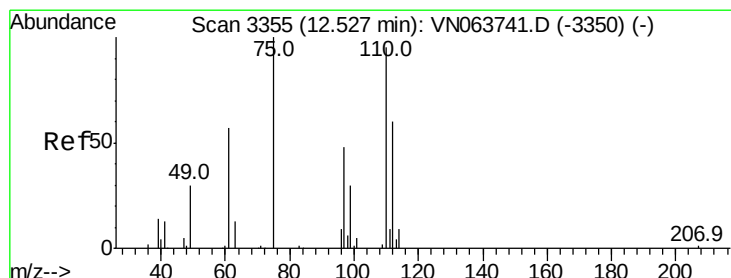
Ion 61.00 (60.70 to 61.70): VN0

Time-->



Abundance

Time-->



#76

1,2,3-Trichloropropane

Concen: 31.459 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063775.D

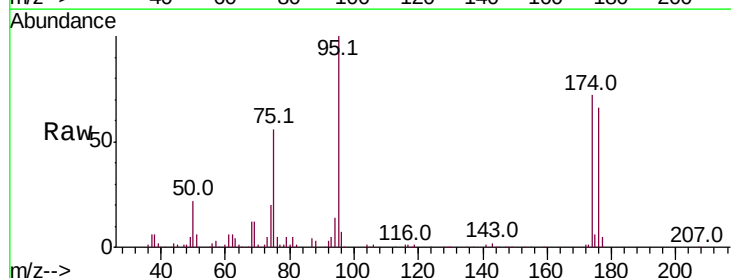
Acq: 1 Oct 2020 16:34

Tgt Ion: 75 Resp: 119241

Ion Ratio Lower Upper

75 100

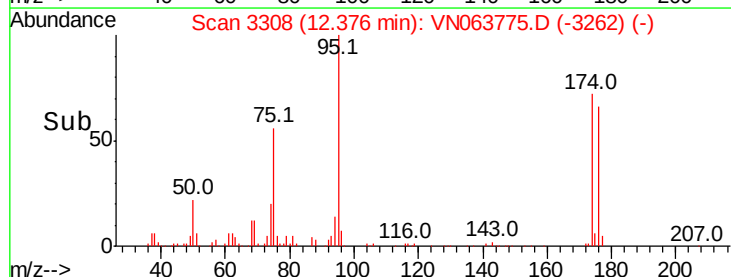
77 1.0 0.0 0.0#



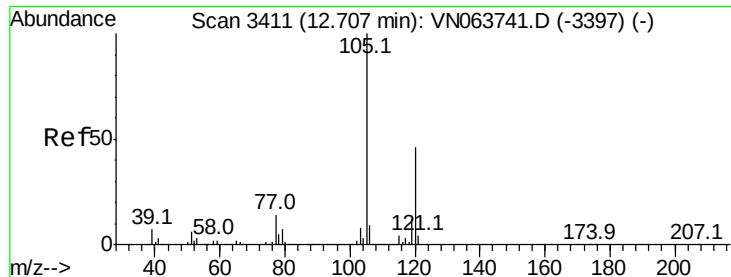
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

Time-->



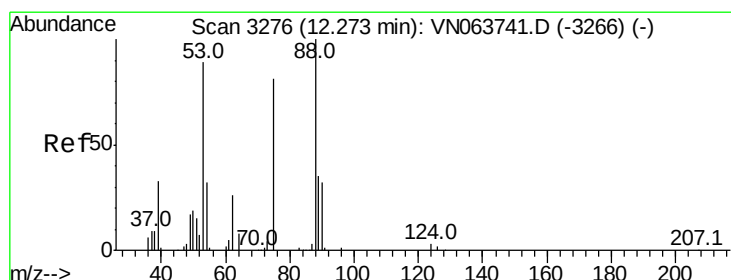
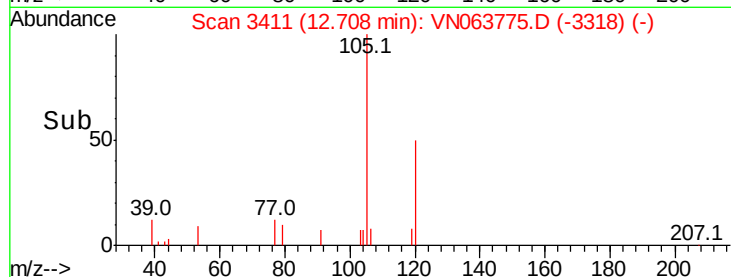
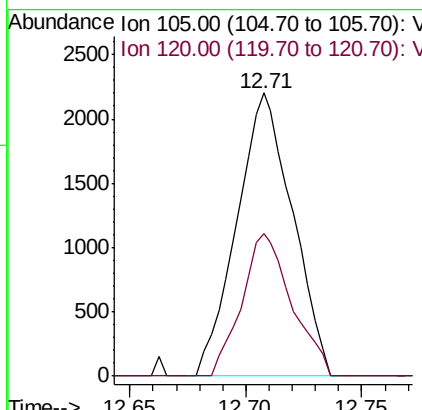
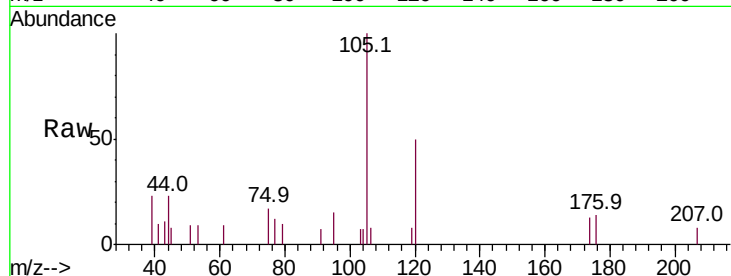
Time-->



#80
 1,3,5-Trimethylbenzene
 Concen: 0.350 ug/l
 RT: 12.71 min Scan# 3411
 Delta R.T. 0.00 min
 Lab File: VN063775.D
 Acq: 1 Oct 2020 16:34

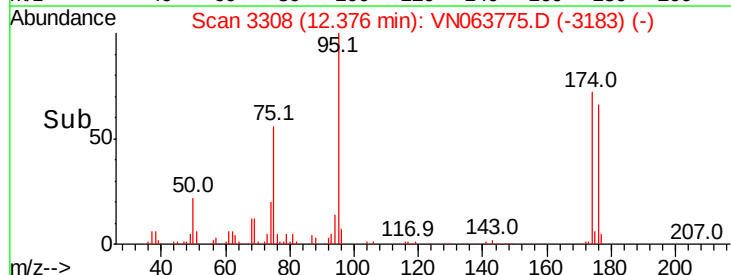
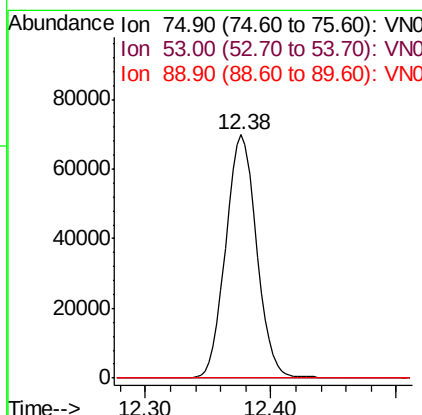
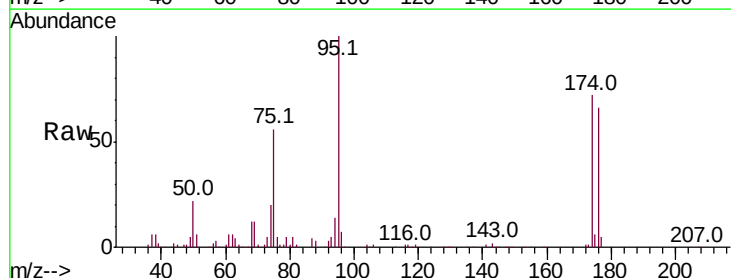
Instrument :
 MSVOA_N
 ClientSampleId :
 PB131943TB

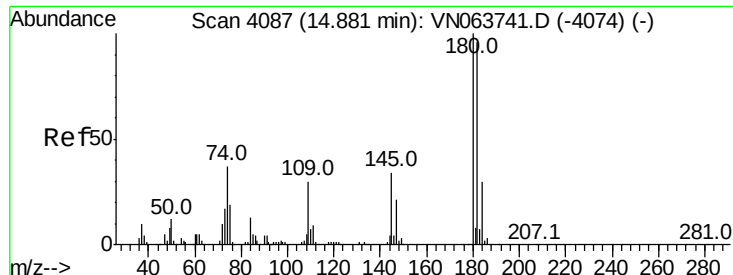
Tot Ion:105 Resp: 3679
 Ion Ratio Lower Upper
 105 100
 120 45.0 23.3 69.9



#81
 trans-1,4-Dichloro-2-butene
 Concen: 90.606 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063775.D
 Acq: 1 Oct 2020 16:34

Tgt Ion: 75 Resp: 119241
 Ion Ratio Lower Upper
 75 100
 53 0.1 88.2 132.2#
 89 0.0 36.0 54.0#





#93

1,2,4-Trichlorobenzene

Concen: 1.746 ug/l

RT: 14.76 min Scan# 4048

Delta R.T. -0.12 min

Lab File: VN063775.D

Acq: 1 Oct 2020 16:34

Instrument :

MSVOA_N

ClientSampleId :

PB131943TB

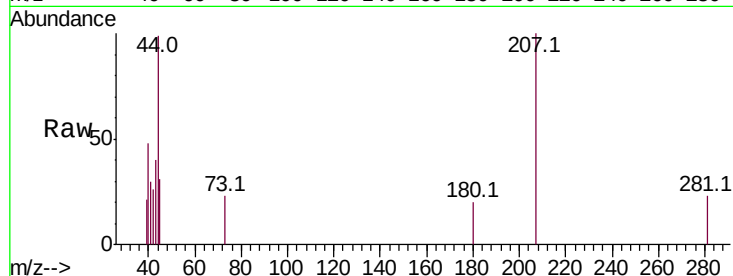
Tot Ion:180 Resp: 29

Ion Ratio Lower Upper

180 100

182 0.0 48.2 144.6#

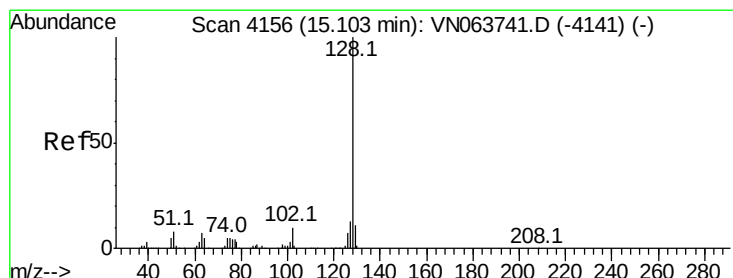
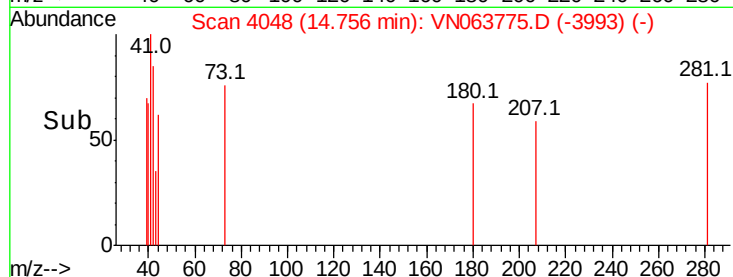
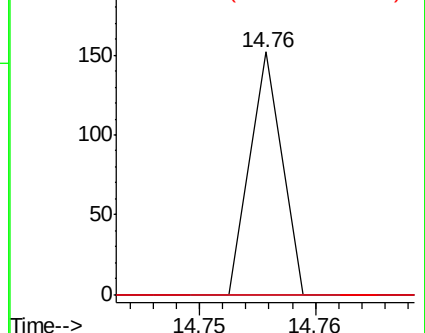
145 0.0 17.1 51.2#



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



#95

Naphthalene

Concen: 1.953 ug/l

RT: 15.12 min Scan# 4162

Delta R.T. 0.02 min

Lab File: VN063775.D

Acq: 1 Oct 2020 16:34

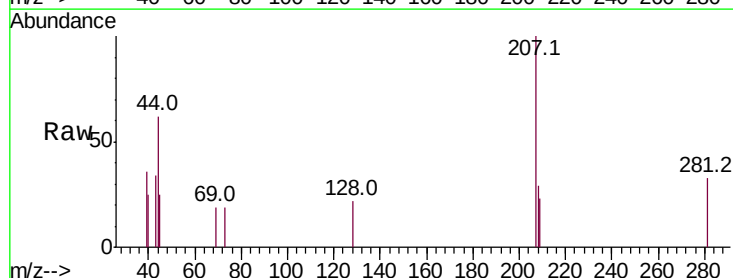
Tgt Ion:128 Resp: 280

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.7 13.1#



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

