

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052419\
 Data File : VN055793.D
 Acq On : 24 May 2019 14:02
 Operator : JC/SP
 Sample : K2996-05DL 5X
 Misc : 5.27g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 P-3(4.5-5.0)DL

Quant Time: May 25 04:26:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 06:41:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	397310	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	555469	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	527458	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	254905	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	178865	43.59	ug/l	0.00
Spiked Amount			Recovery	=	87.18%	
35) Dibromofluoromethane	7.59	113	164090	46.72	ug/l	0.00
Spiked Amount			Recovery	=	93.44%	
50) Toluene-d8	10.09	98	697263	51.76	ug/l	0.00
Spiked Amount			Recovery	=	103.52%	
62) 4-Bromofluorobenzene	12.40	95	263274	57.00	ug/l	0.00
Spiked Amount			Recovery	=	114.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	13007	16.591	ug/l #	74
13) Acrolein	3.54	56	20780	37.018	ug/l #	1
14) Allyl chloride	4.40	41	58860	10.161	ug/l #	76
15) Acrylonitrile	5.03	53	45429	25.236	ug/l #	39
16) Acetone	3.77	43	79784	44.235	ug/l #	52
18) Methyl Acetate	4.57	43	2429032	678.336	ug/l #	51
20) Methylene Chloride	4.68	84	97279	24.905	ug/l #	10
23) Vinyl Acetate	5.85	43	36557	3.784	ug/l #	71
24) 1,1-Dichloroethane	5.84	63	4169	0.636	ug/l #	83
25) 2-Butanone	6.81	43	18041	7.162	ug/l #	47
28) Bromochloromethane	7.38	49	3332	1.067	ug/l #	7
29) Tetrahydrofuran	7.20	42	3856	2.417	ug/l #	32
30) Chloroform	7.32	83	163122	24.935	ug/l #	18
31) Cyclohexane	7.63	56	636775	103.396	ug/l #	51
36) 1,1-Dichloropropene	7.66	75	24295	5.019	ug/l #	47
37) Ethyl Acetate	6.81	43	18041	3.856	ug/l #	67
38) Carbon Tetrachloride	7.66	117	32900	6.525	ug/l #	14
39) Methylcyclohexane	9.08	83	589600	98.360	ug/l	89
40) Benzene	8.04	78	602804	41.319	ug/l	98
41) Methacrylonitrile	7.21	41	37292	15.778	ug/l #	42
42) 1,2-Dichloroethane	8.15	62	1077	0.226	ug/l #	1
43) Isopropyl Acetate	8.14	43	213148	27.116	ug/l #	53
45) 1,2-Dichloropropane	9.15	63	1842	0.485	ug/l #	1
47) Bromodichloromethane	9.38	83	144211	28.213	ug/l #	25
48) Methyl methacrylate	9.22	41	37914	10.465	ug/l #	27
51) 4-Methyl-2-Pentanone	10.02	43	73756	15.887	ug/l #	78
52) Toluene	10.16	92	1940396	211.479	ug/l	99
55) 1,1,2-Trichloroethane	10.53	97	195124	53.084	ug/l #	18
56) Ethyl methacrylate	10.47	69	43009	7.571	ug/l #	33
58) 2-Chloroethyl Vinyl ether	9.67	63	4416	2.034	ug/l #	46
59) 2-Hexanone	10.72	43	170366	51.728	ug/l #	29
61) 1,2-Dibromoethane	10.98	107	2097	0.550	ug/l #	1
67) Ethyl Benzene	11.51	91	5588036	295.109	ug/l	99
68) m/p-Xylenes	11.62	106	10064280	1405.912	ug/l #	1

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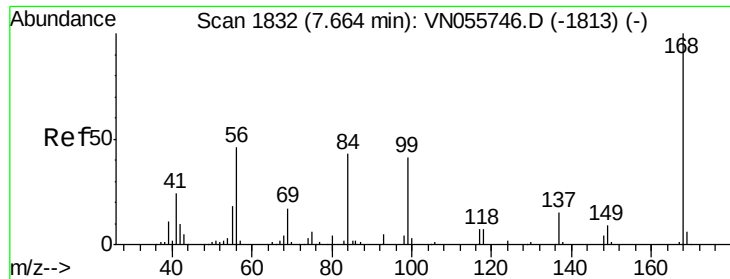
Instrument :
 MSVOA_N
 ClientSampleId :
 P-3(4.5-5.0)DL

Quant Time: May 25 04:26:51 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

69) o-Xylene	11.95	106	2745891	386.624	ug/l	100
70) Styrene	11.95	104	132949	11.559	ug/l #	1
71) Bromoform	12.40	173	1533	0.427	ug/l #	1
73) Isopropylbenzene	12.25	105	1464043	82.474	ug/l	100
74) N-amyl acetate	12.04	43	82440	10.126	ug/l #	53
75) 1,1,2,2-Tetrachloroethane	12.49	83	4529	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.59	75	12645	Below Cal	#	100
78) n-propylbenzene	12.59	91	2313094	104.406	ug/l	100
79) 2-Chlorotoluene	12.65	91	865029	73.696	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.73	105	3433108	234.376	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.25	75	14973	7.903	ug/l #	40
82) 4-Chlorotoluene	12.73	91	331712	25.471	ug/l #	40
83) tert-Butylbenzene	13.04	119	1370385	107.343	ug/l #	72
84) 1,2,4-Trimethylbenzene	13.04	105	10775627	739.457	ug/l	99
85) sec-Butylbenzene	13.04	105	10775627	656.614	ug/l #	55
86) p-Isopropyltoluene	13.23	119	346174	19.555	ug/l	96
89) n-Butylbenzene	13.61	91	324102	23.895	ug/l #	67
90) Hexachloroethane	13.89	117	151176	44.867	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	14.29	75	1343	1.189	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	4354	4.453	ug/l #	82
94) Hexachlorobutadiene	15.00	225	809	Below Cal		95
95) Naphthalene	15.13	128	1069979	90.740	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	4457	0.981	ug/l #	82

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

Instrument :

MSVOA_N

ClientSampleId :

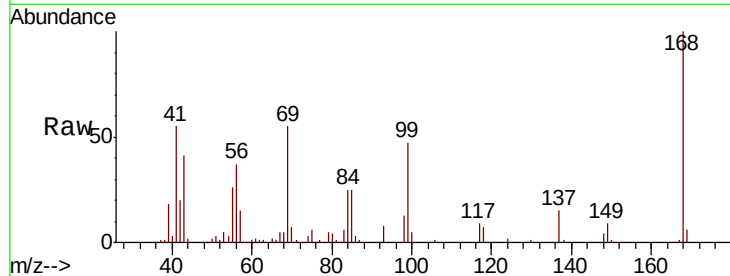
P-3(4.5-5.0)DL

Tot Ion:168 Resp: 397310

Ion Ratio Lower Upper

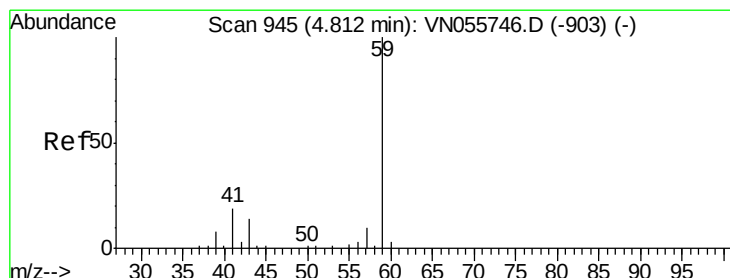
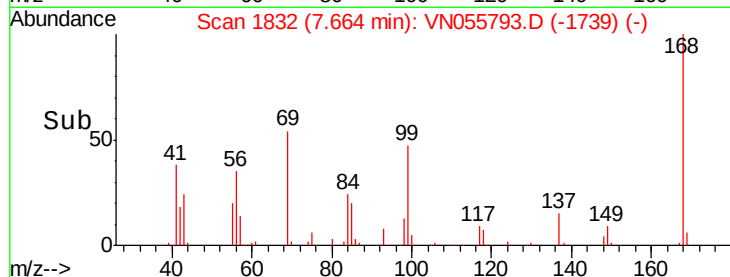
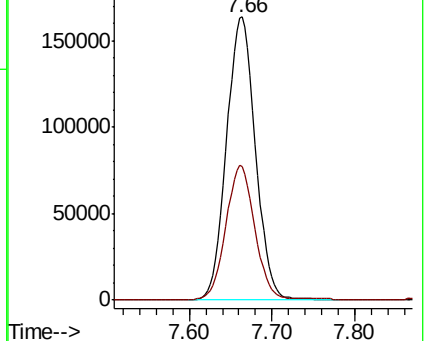
168 100

99 47.0 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 16.591 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.07 min

Lab File: VN055793.D

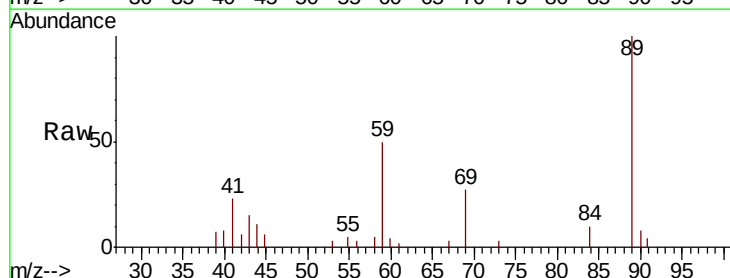
Acq: 24 May 2019 14:02

Tgt Ion: 59 Resp: 13007

Ion Ratio Lower Upper

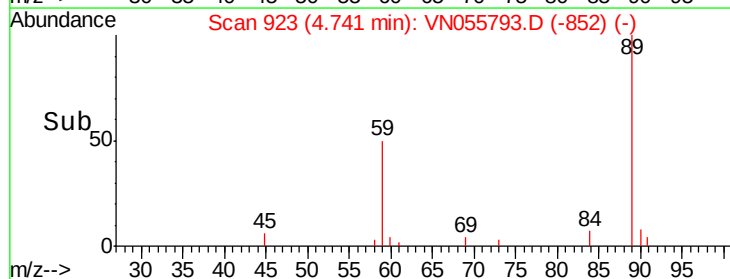
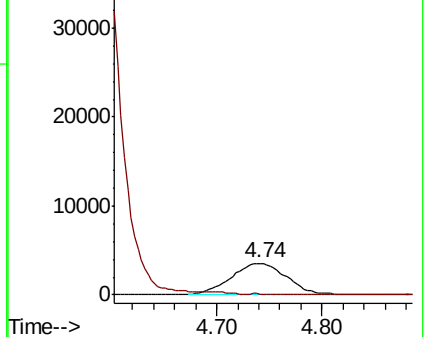
59 100

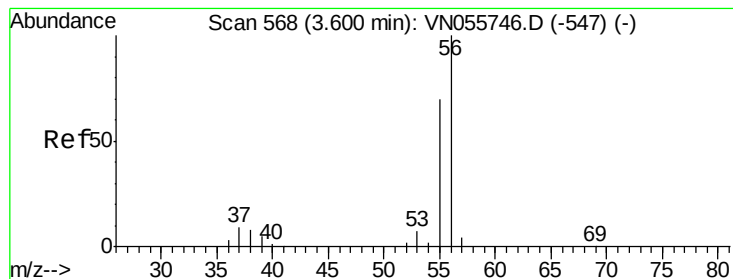
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#13

Acrolein

Concen: 37.018 ug/l

RT: 3.54 min Scan# 549

Delta R.T. -0.06 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

Instrument :

MSVOA_N

ClientSampled :

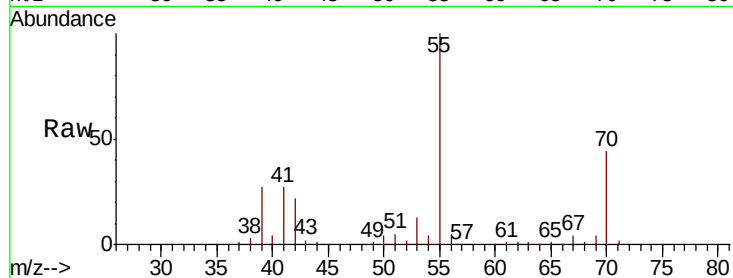
P-3(4.5-5.0)DL

Tot Ion: 56 Resp: 20780

Ion Ratio Lower Upper

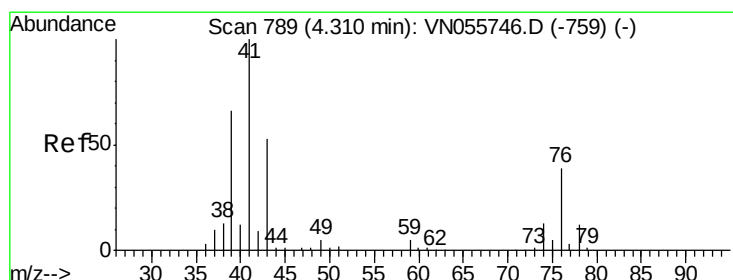
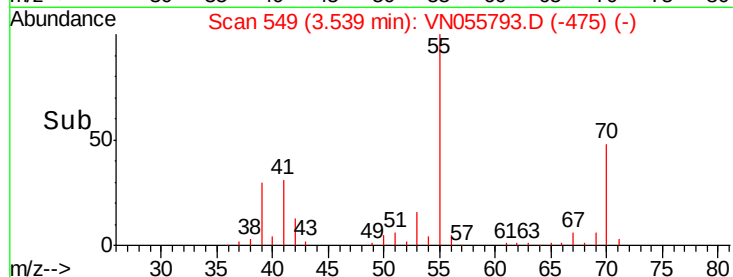
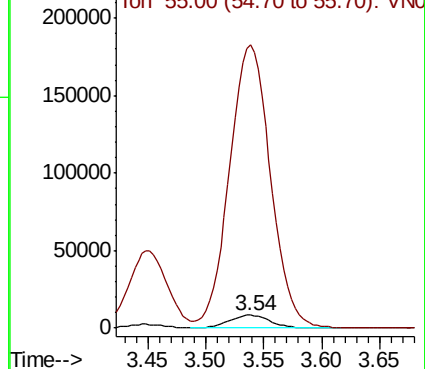
56 100

55 2156.9 55.4 83.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 10.161 ug/l

RT: 4.40 min Scan# 816

Delta R.T. 0.09 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

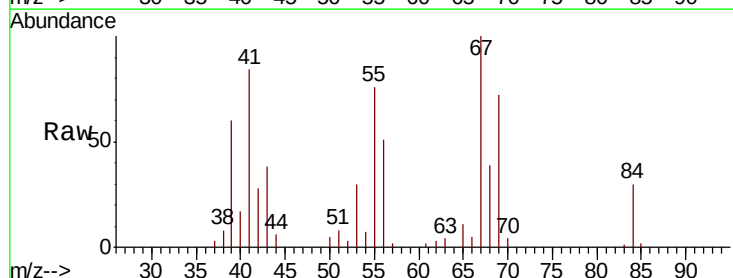
Tgt Ion: 41 Resp: 58860

Ion Ratio Lower Upper

41 100

39 64.9 50.0 75.0

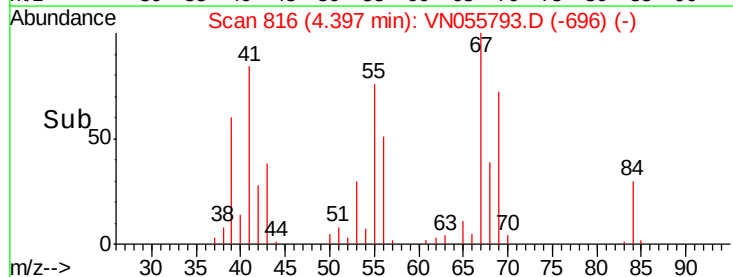
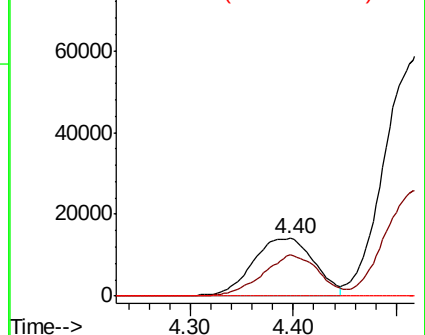
76 0.0 28.2 42.2#

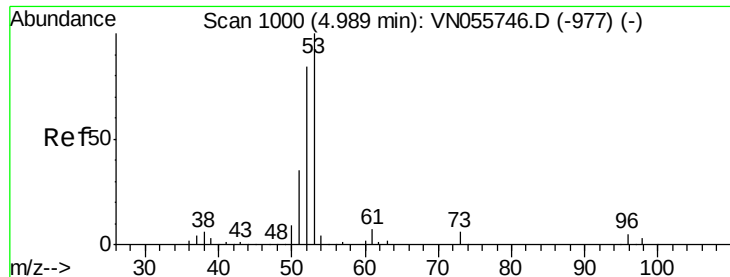


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 25.236 ug/l

RT: 5.03 min Scan# 1014

Delta R.T. 0.05 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

Instrument :

MSVOA_N

ClientSampleId :

P-3(4.5-5.0)DL

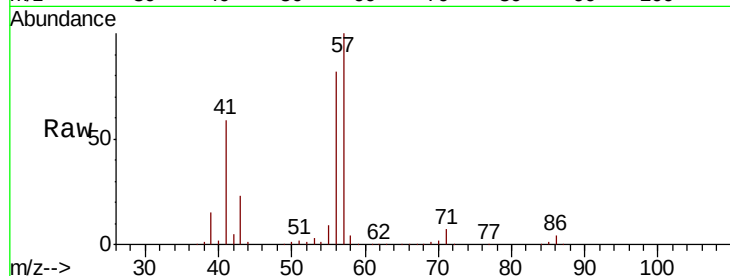
Tot Ion: 53 Resp: 45429

Ion Ratio Lower Upper

53 100

52 20.1 65.8 98.8#

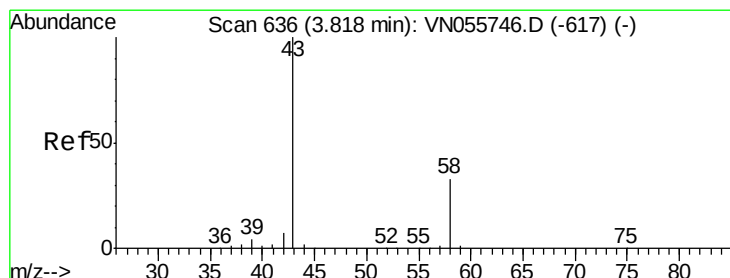
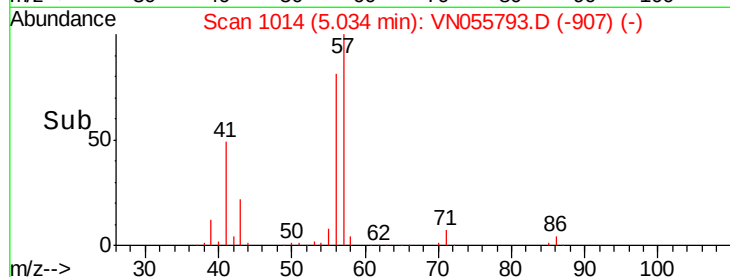
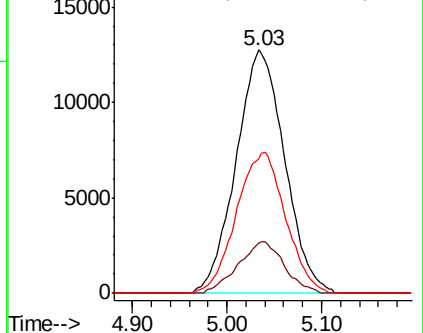
51 58.5 28.2 42.4#



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



#16

Acetone

Concen: 44.235 ug/l

RT: 3.77 min Scan# 622

Delta R.T. -0.04 min

Lab File: VN055793.D

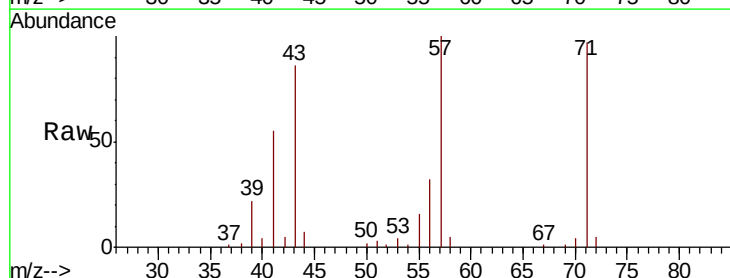
Acq: 24 May 2019 14:02

Tgt Ion: 43 Resp: 79784

Ion Ratio Lower Upper

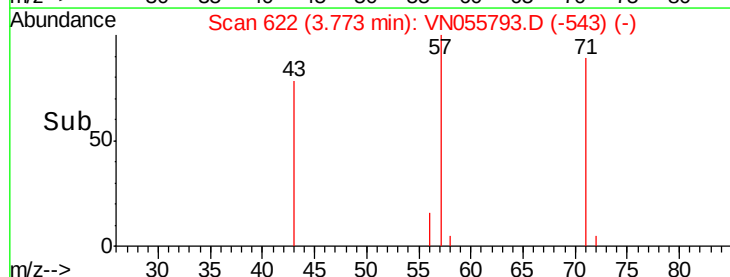
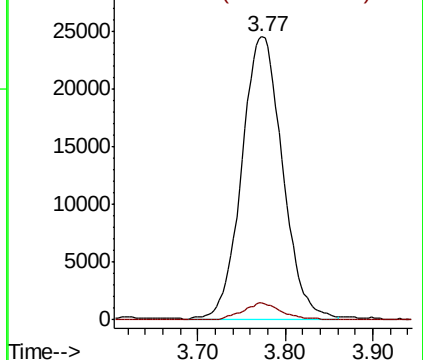
43 100

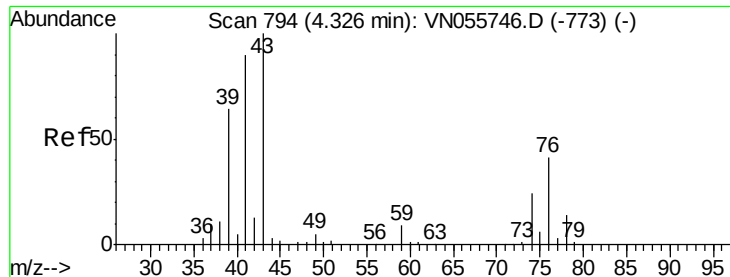
58 5.9 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

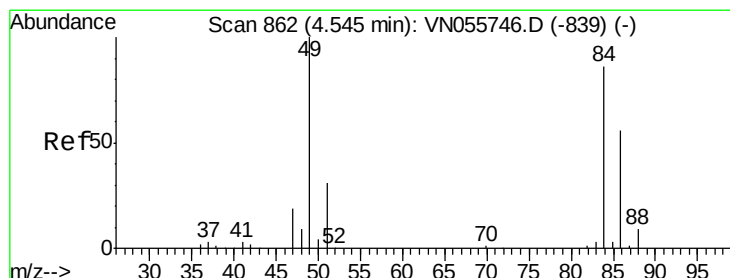
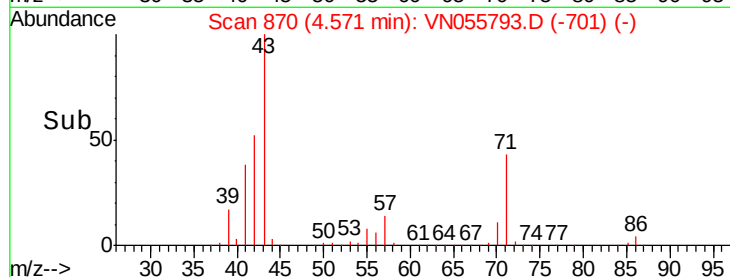
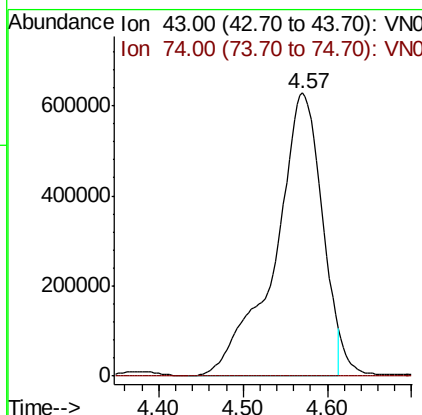
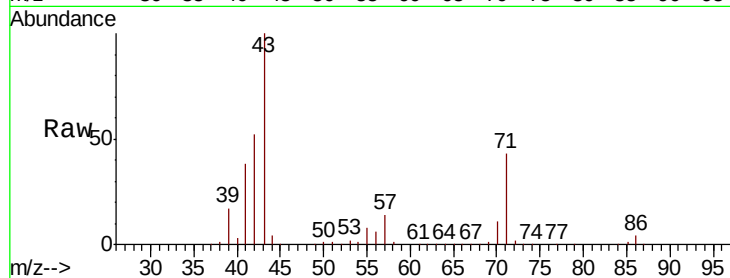




#18
Methyl Acetate
Concen: 678.336 ug/l
RT: 4.57 min Scan# 870
Delta R.T. 0.24 min
Lab File: VN055793.D
Acq: 24 May 2019 14:02

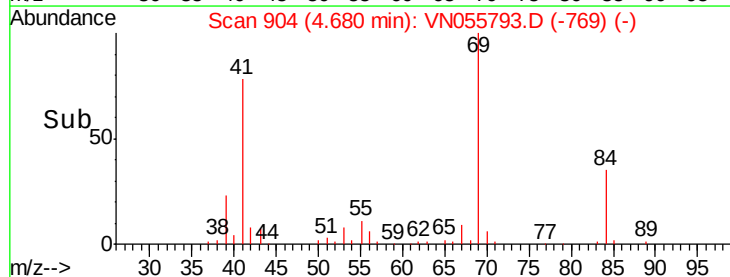
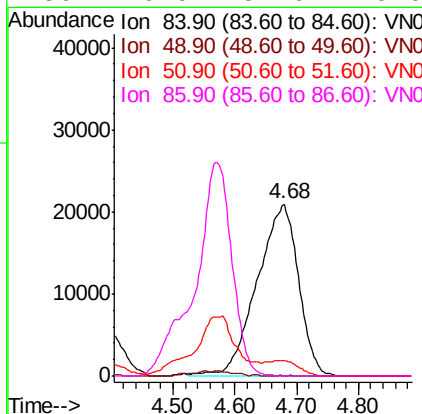
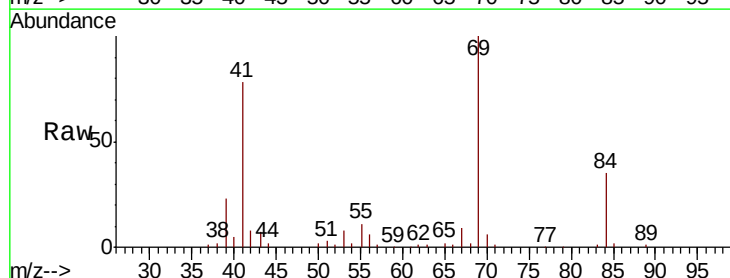
Instrument :
MSVOA_N
ClientSampleId :
P-3(4.5-5.0)DL

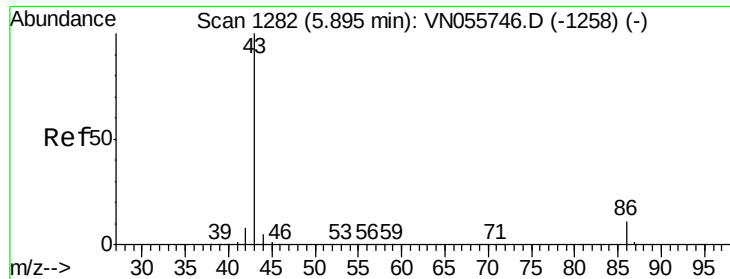
Tot Ion: 43 Resp: 2429032
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#



#20
Methylene Chloride
Concen: 24.905 ug/l
RT: 4.68 min Scan# 904
Delta R.T. 0.14 min
Lab File: VN055793.D
Acq: 24 May 2019 14:02

Tgt Ion: 84 Resp: 97279
Ion Ratio Lower Upper
84 100
49 0.0 93.5 140.3#
51 8.8 28.6 43.0#
86 0.0 52.6 79.0#





#23

Vinyl Acetate

Concen: 3.784 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.04 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

Instrument :

MSVOA_N

ClientSampled :

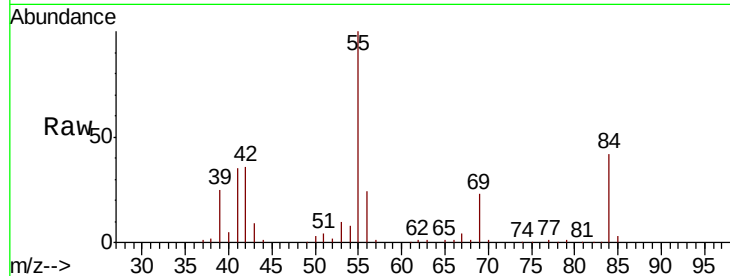
P-3(4.5-5.0)DL

Tot Ion: 43 Resp: 36557

Ion Ratio Lower Upper

43 100

86 0.0 8.6 13.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

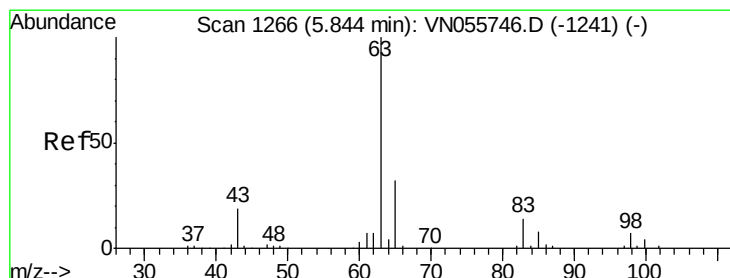
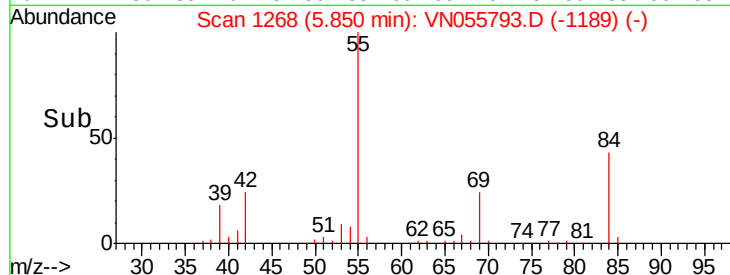
5.85

10000

5000

0

Time-->



#24

1,1-Dichloroethane

Concen: 0.636 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

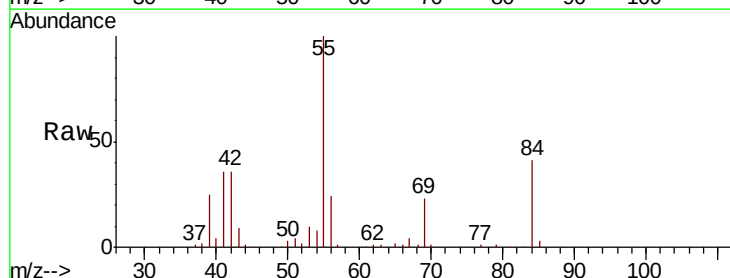
Tgt Ion: 63 Resp: 4169

Ion Ratio Lower Upper

63 100

98 0.0 3.4 10.1#

100 0.0 2.2 6.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

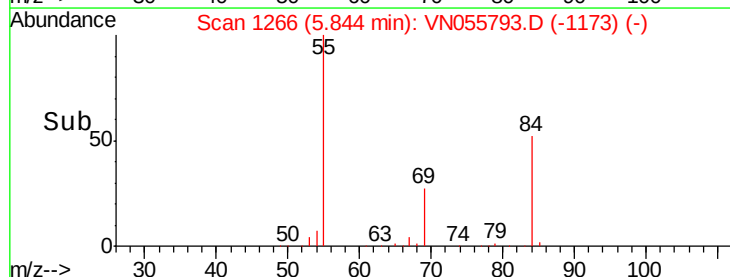
3000

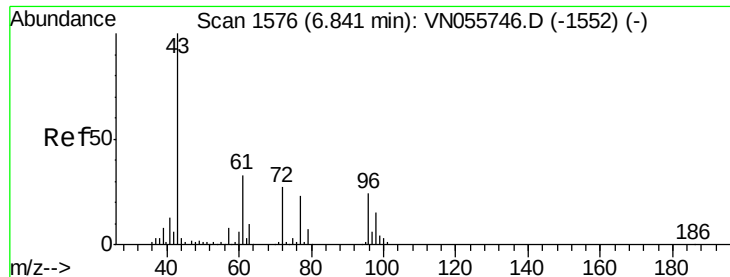
2000

1000

0

Time-->





#25

2-Butanone

Concen: 7.162 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.04 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

Instrument :

MSVOA_N

ClientSampled :

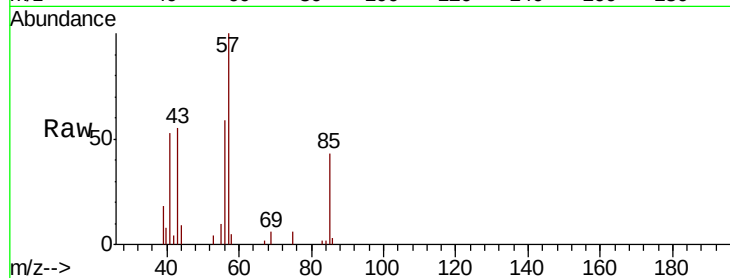
P-3(4.5-5.0)DL

Tot Ion: 43 Resp: 18041

Ion Ratio Lower Upper

43 100

72 0.0 21.9 32.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.81

5000

4000

3000

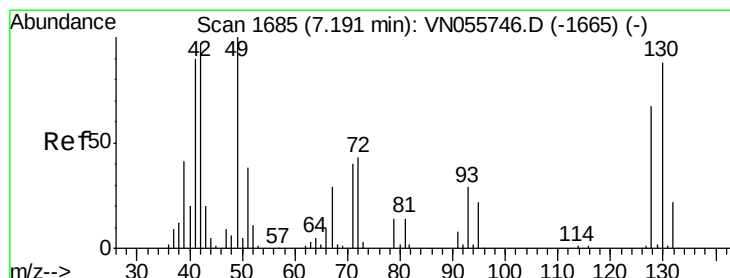
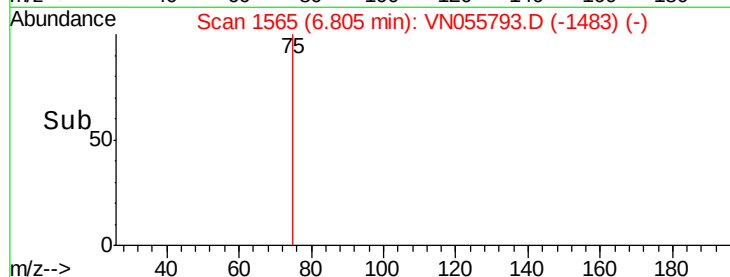
2000

1000

0

6.70 6.80 6.90

Time-->



#28

Bromochloromethane

Concen: 1.067 ug/l

RT: 7.38 min Scan# 1743

Delta R.T. 0.19 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

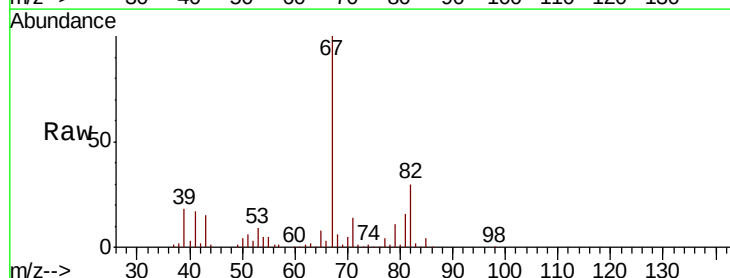
Tgt Ion: 49 Resp: 3332

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.4

130 0.0 71.2 106.8#



Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

1500

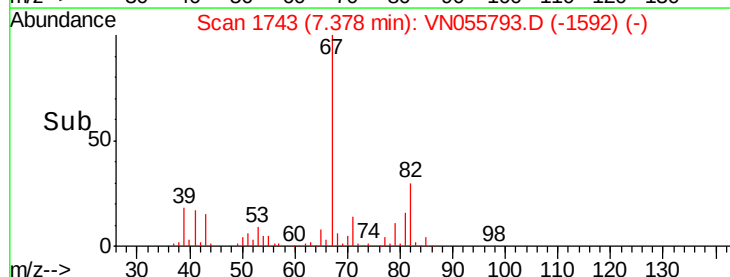
1000

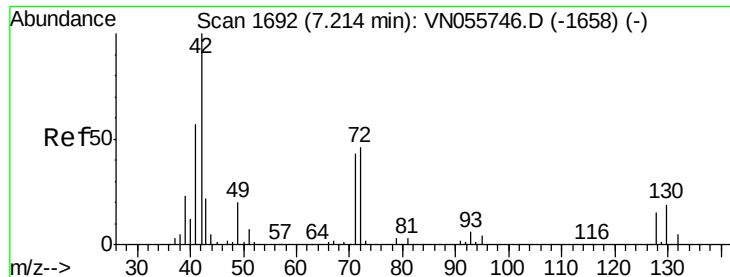
500

0

7.35 7.40 7.45

Time-->





#29

Tetrahydrofuran

Concen: 2.417 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. -0.01 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

Instrument :

MSVOA_N

ClientSampleId :

P-3(4.5-5.0)DL

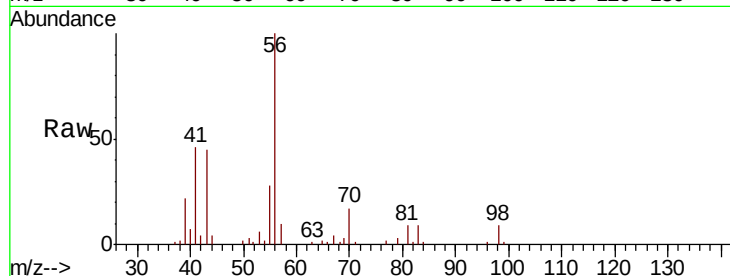
Tot Ion: 42 Resp: 3856

Ion Ratio Lower Upper

42 100

72 0.0 35.9 53.9#

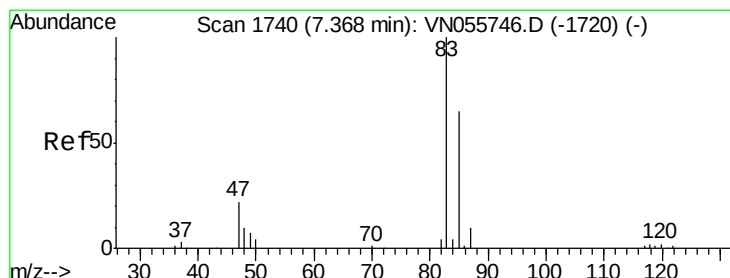
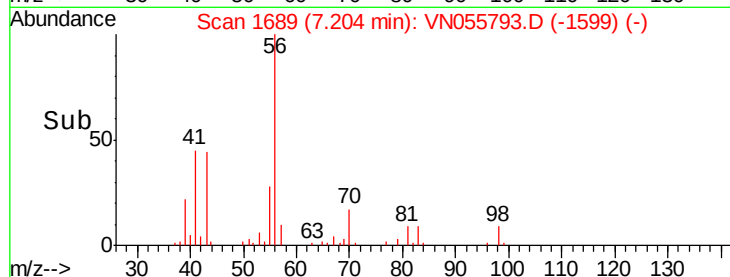
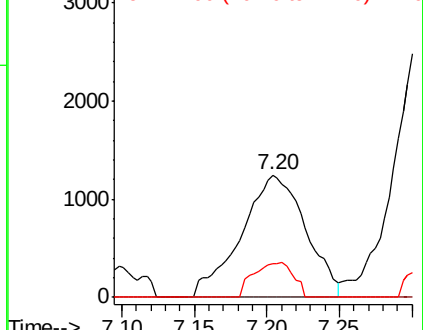
71 0.0 34.0 51.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#30

Chloroform

Concen: 24.935 ug/l

RT: 7.32 min Scan# 1725

Delta R.T. -0.05 min

Lab File: VN055793.D

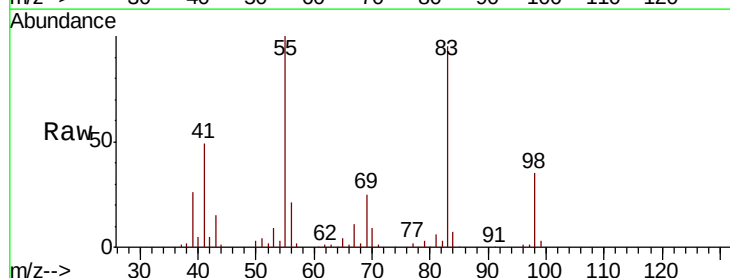
Acq: 24 May 2019 14:02

Tgt Ion: 83 Resp: 163122

Ion Ratio Lower Upper

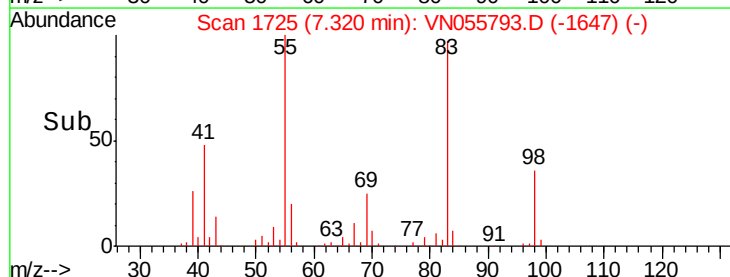
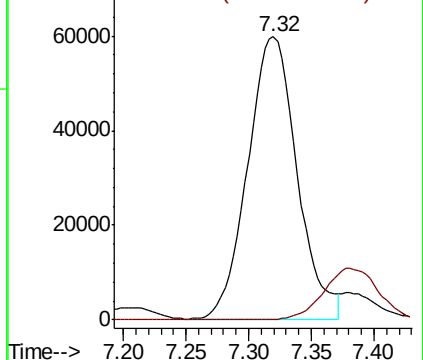
83 100

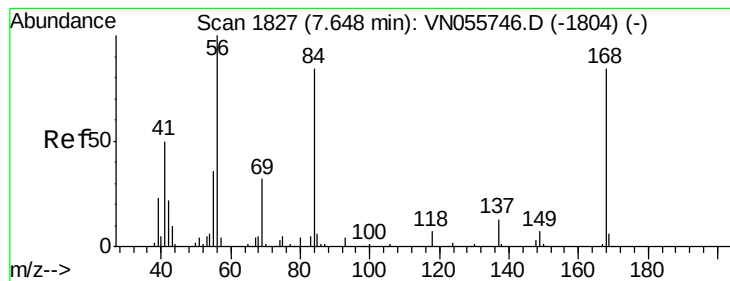
85 0.3 51.8 77.8#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 103.396 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.02 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

Instrument :

MSVOA_N

ClientSampleId :

P-3(4.5-5.0)DL

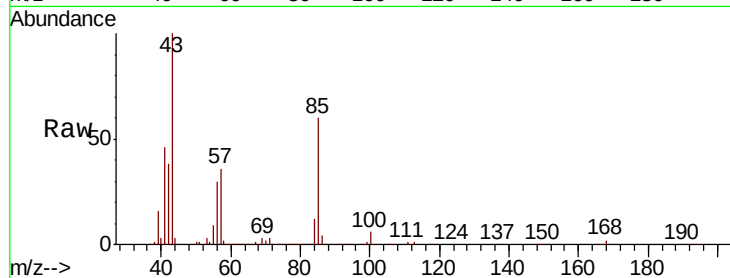
Tot Ion: 56 Resp: 636775

Ion Ratio Lower Upper

56 100

69 3.9 25.6 38.4#

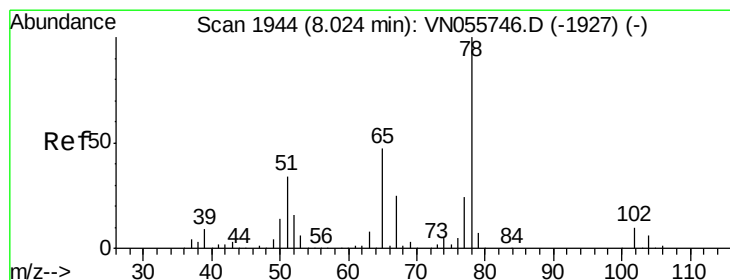
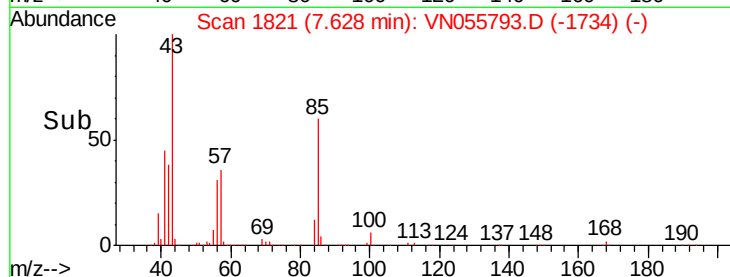
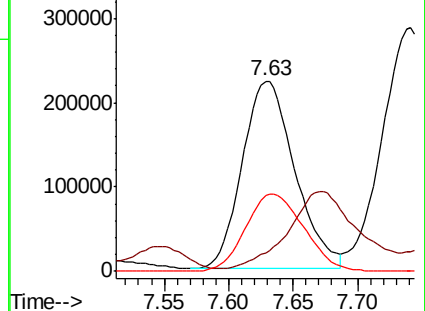
84 40.2 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 43.593 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN055793.D

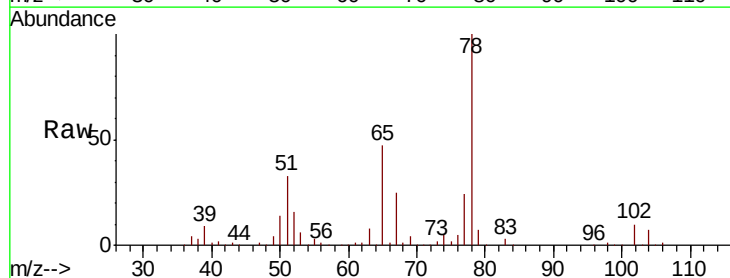
Acq: 24 May 2019 14:02

Tgt Ion: 65 Resp: 178865

Ion Ratio Lower Upper

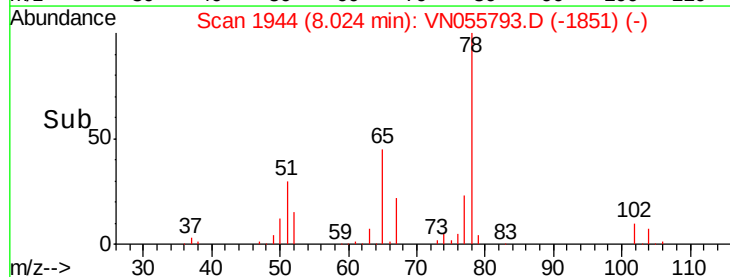
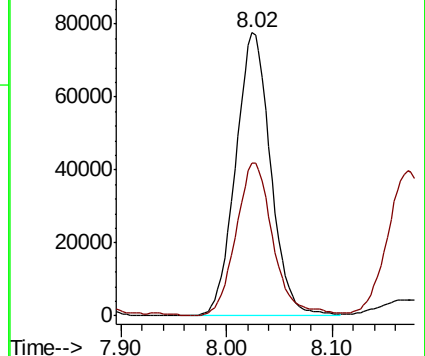
65 100

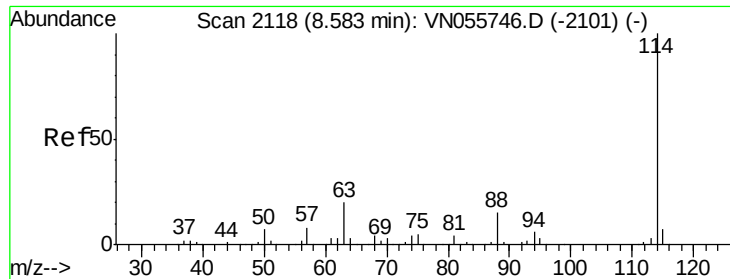
67 56.8 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

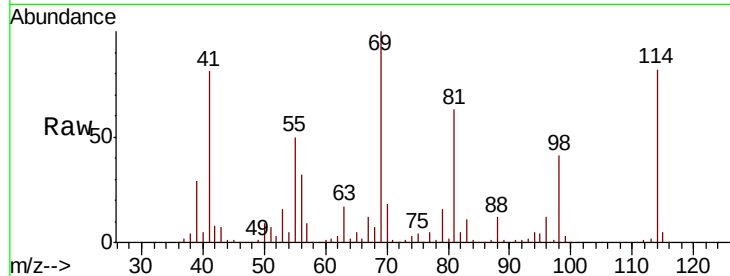




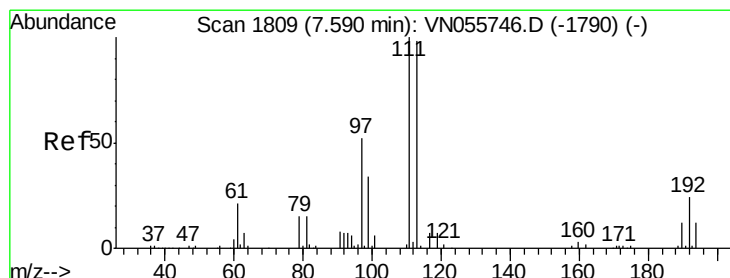
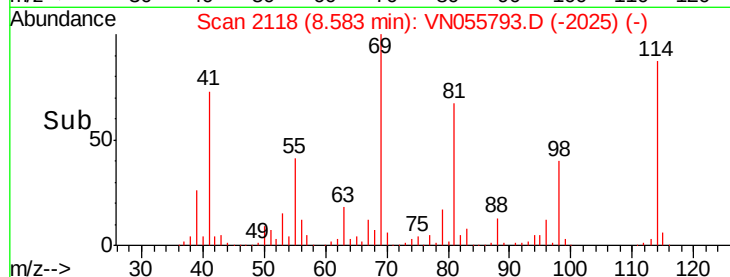
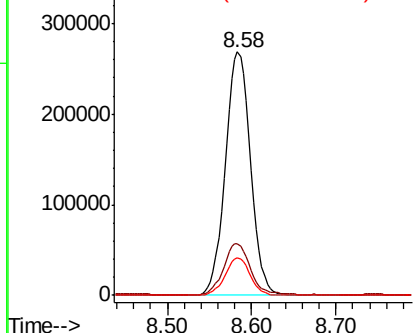
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055793.D
 Acq: 24 May 2019 14:02

Instrument :
 MSVOA_N
 ClientSampleId :
 P-3(4.5-5.0)DL

Tot Ion:114 Resp: 555469
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 39.2
 88 15.2 0.0 31.0

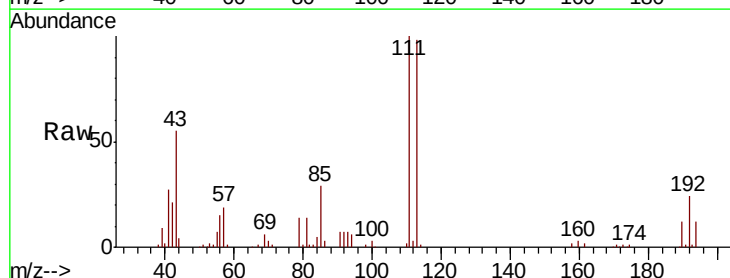


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

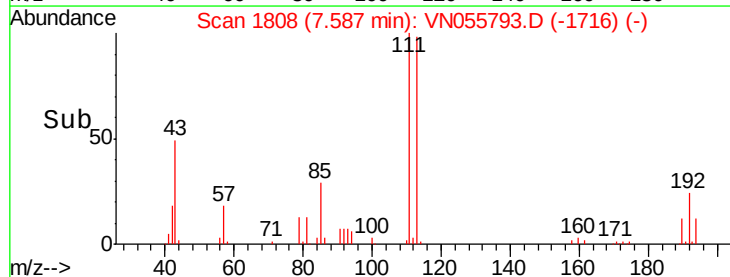
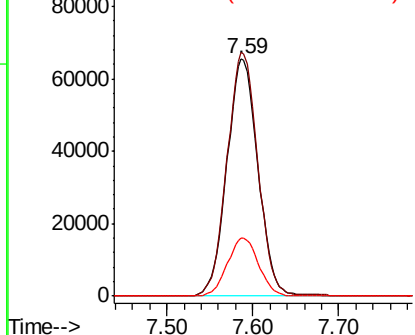


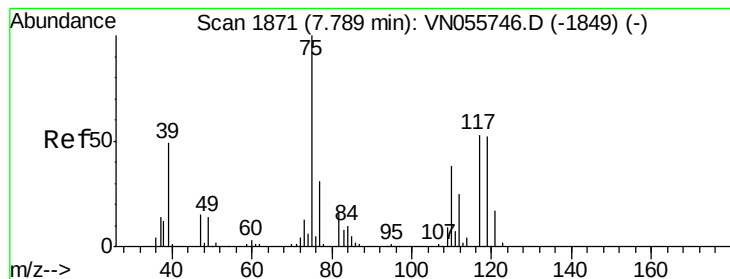
#35
 Dibromofluoromethane
 Concen: 46.724 ug/l
 RT: 7.59 min Scan# 1808
 Delta R.T. -0.00 min
 Lab File: VN055793.D
 Acq: 24 May 2019 14:02

Tgt Ion:113 Resp: 164090
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.9 122.9
 192 24.4 19.5 29.3



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: 5.019 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

Instrument :

MSVOA_N

ClientSampled :

P-3(4.5-5.0)DL

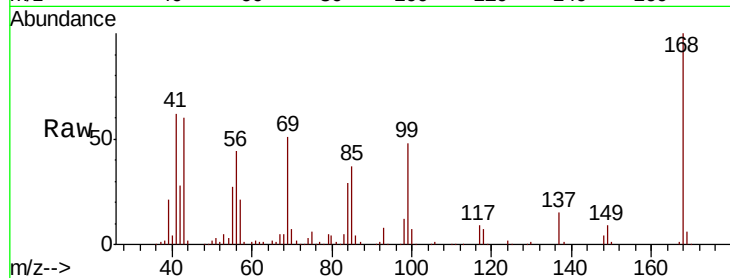
Tot Ion: 75 Resp: 24295

Ion Ratio Lower Upper

75 100

110 8.3 19.0 57.0#

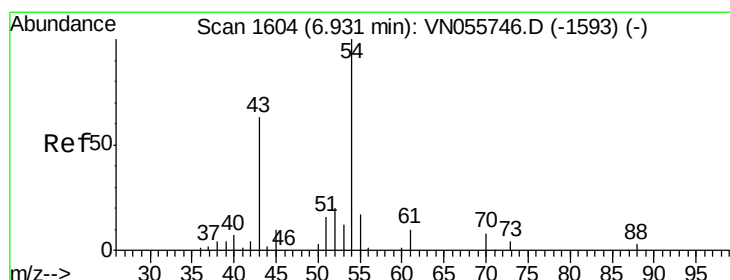
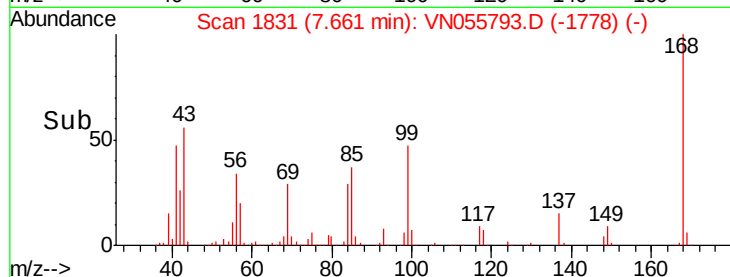
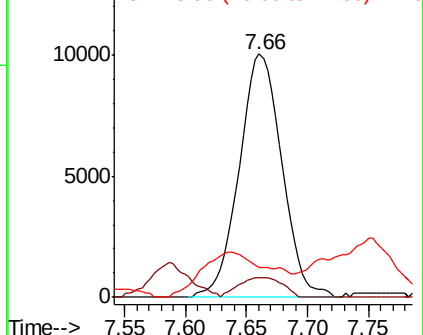
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: 3.856 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.13 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

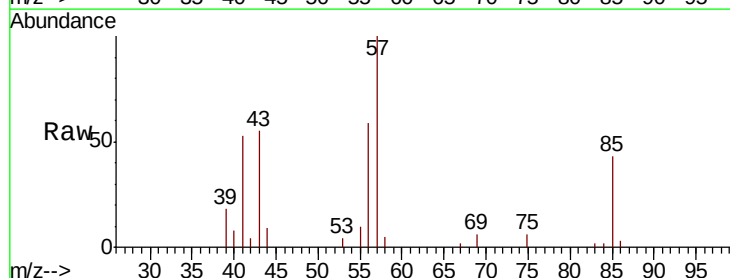
Tgt Ion: 43 Resp: 18041

Ion Ratio Lower Upper

43 100

61 0.0 12.2 18.2#

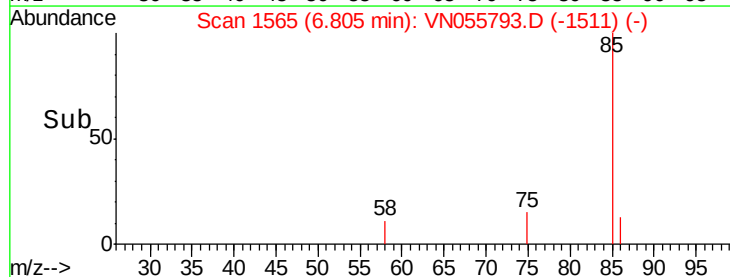
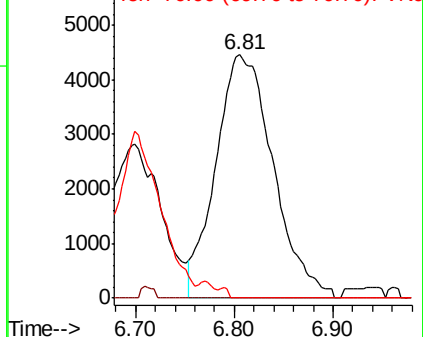
70 0.0 8.9 13.3#

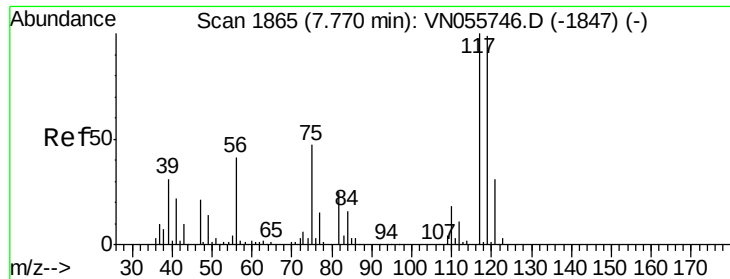


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0

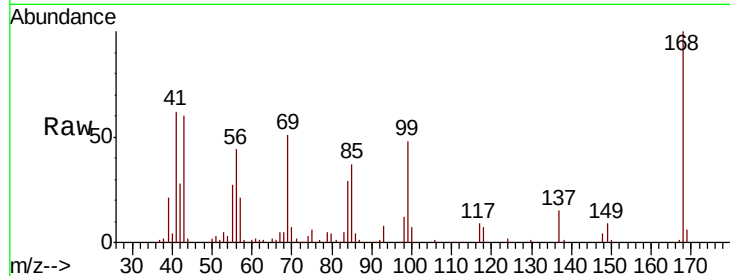




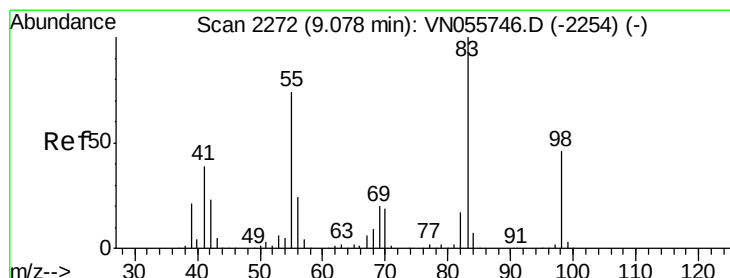
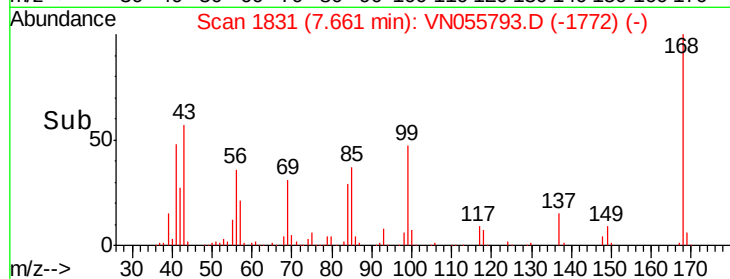
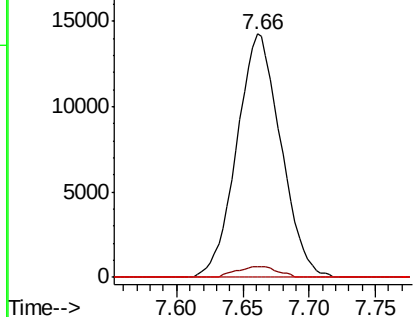
#38
Carbon Tetrachloride
Concen: 6.525 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN055793.D
Acq: 24 May 2019 14:02

Instrument :
MSVOA_N
ClientSampled :
P-3(4.5-5.0)DL

Tot Ion:117 Resp: 32900
Ion Ratio Lower Upper
117 100
119 4.5 79.0 118.6#
121 0.0 24.7 37.1#

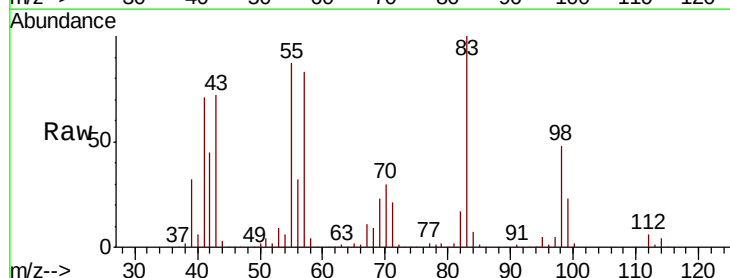


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

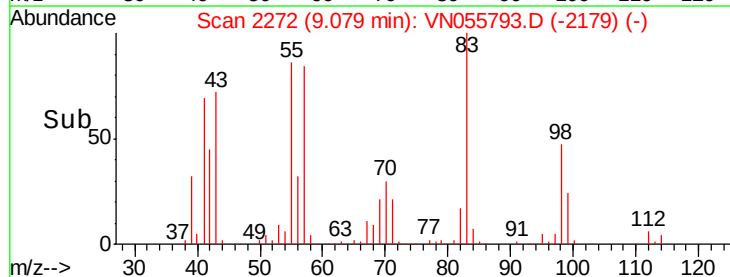
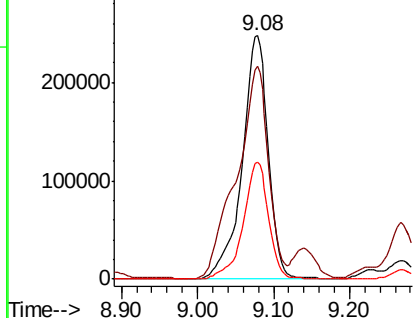


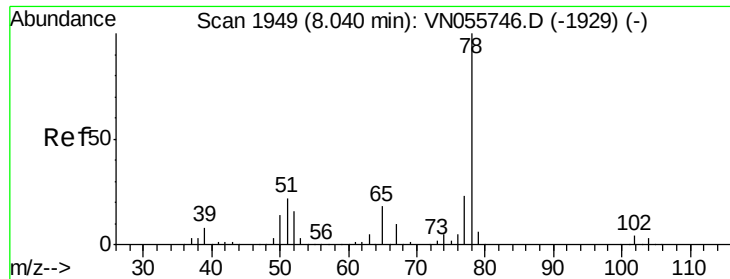
#39
Methylcyclohexane
Concen: 98.360 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN055793.D
Acq: 24 May 2019 14:02

Tgt Ion: 83 Resp: 589600
Ion Ratio Lower Upper
83 100
55 87.2 59.3 88.9
98 48.3 36.6 54.8



Abundance Ion 83.00 (82.70 to 83.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 98.00 (97.70 to 98.70): V





#40

Benzene

Concen: 41.319 ug/l

RT: 8.04 min Scan# 1948

Delta R.T. -0.00 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

Instrument :

MSVOA_N

ClientSampleId :

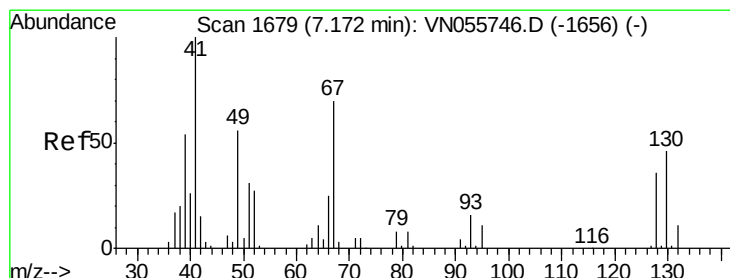
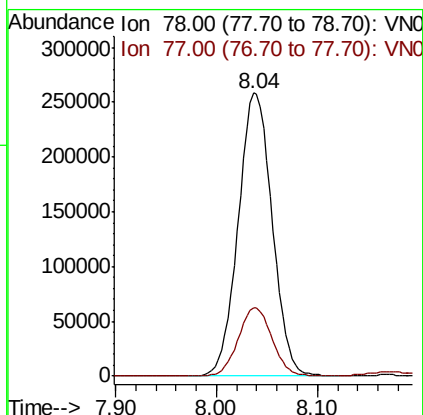
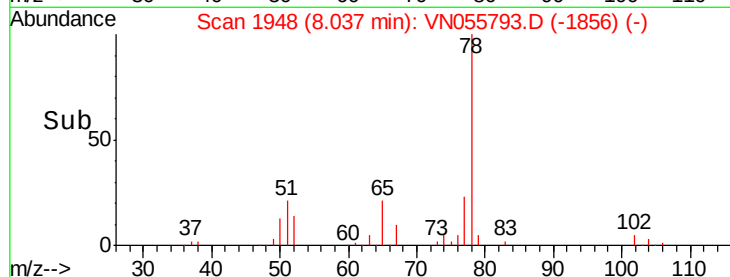
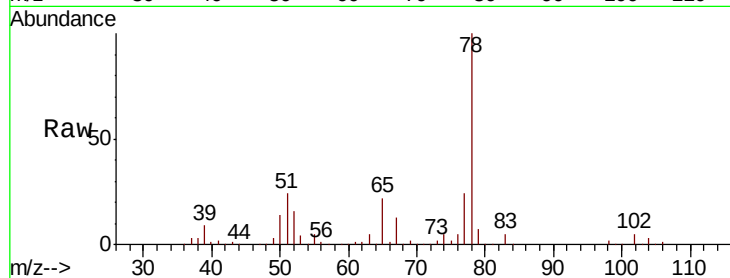
P-3(4.5-5.0)DL

Tot Ion: 78 Resp: 602804

Ion Ratio Lower Upper

78 100

77 24.3 18.8 28.2



#41

Methacrylonitrile

Concen: 15.778 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. 0.04 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

Tgt Ion: 41 Resp: 37292

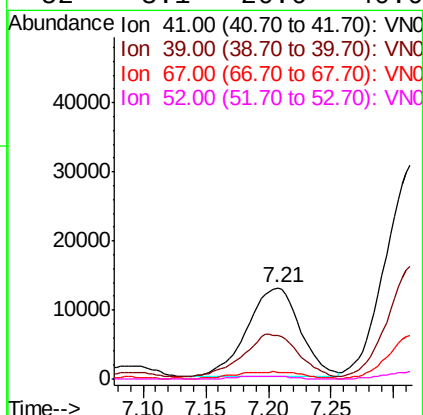
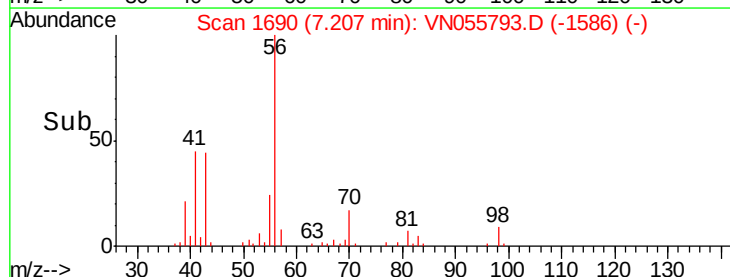
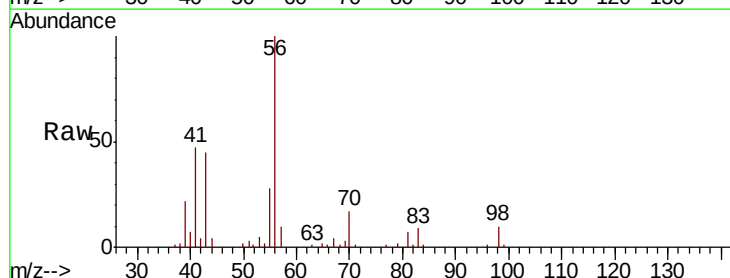
Ion Ratio Lower Upper

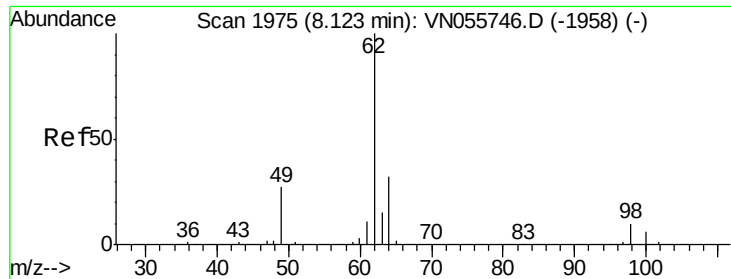
41 100

39 49.3 45.6 68.4

67 0.0 67.7 101.5#

52 3.1 26.6 40.0#

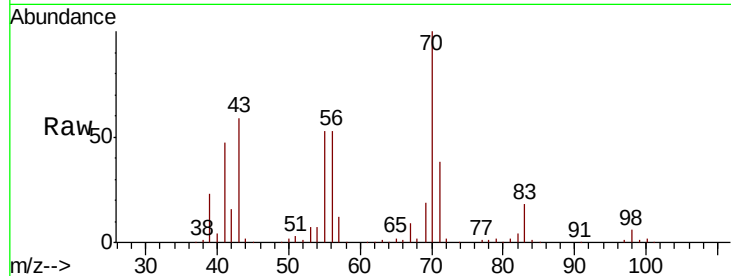




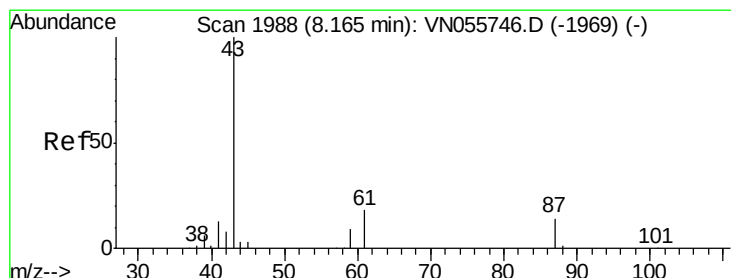
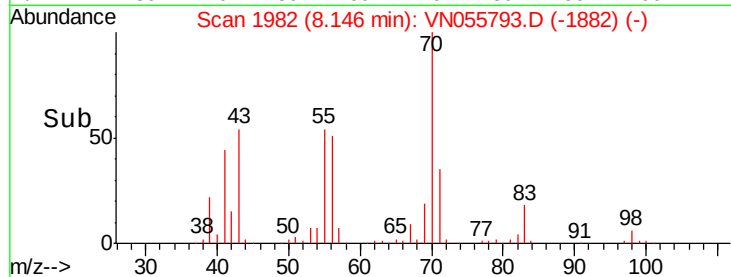
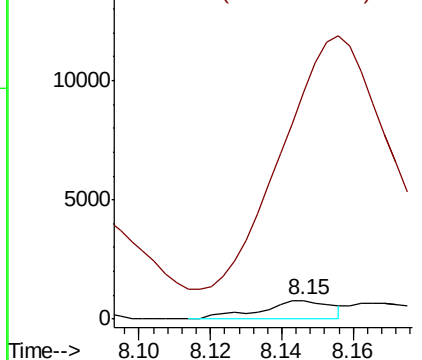
#42
 1,2-Dichloroethane
 Concen: 0.226 ug/l
 RT: 8.15 min Scan# 1982
 Delta R.T. 0.02 min
 Lab File: VN055793.D
 Acq: 24 May 2019 14:02

Instrument :
 MSVOA_N
 ClientSampled :
 P-3(4.5-5.0)DL

Tot Ion: 62 Resp: 1077
 Ion Ratio Lower Upper
 62 100
 98 2094.4 0.0 20.2#

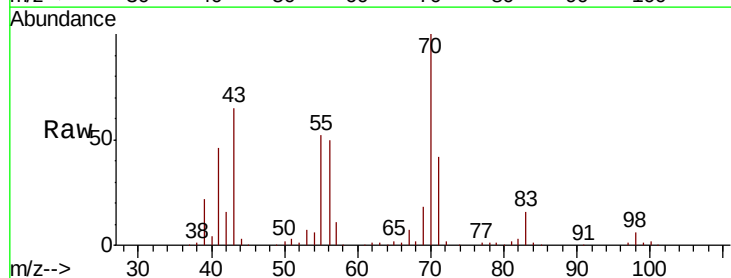


Abundance Ion 61.90 (61.60 to 62.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0

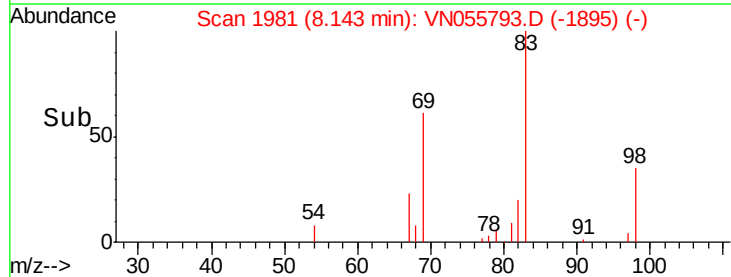
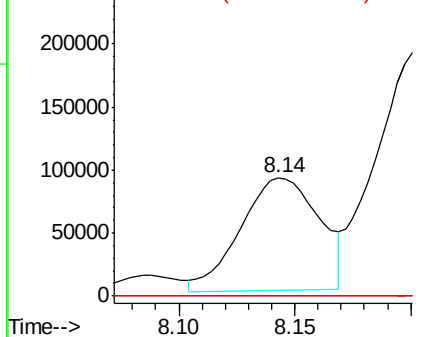


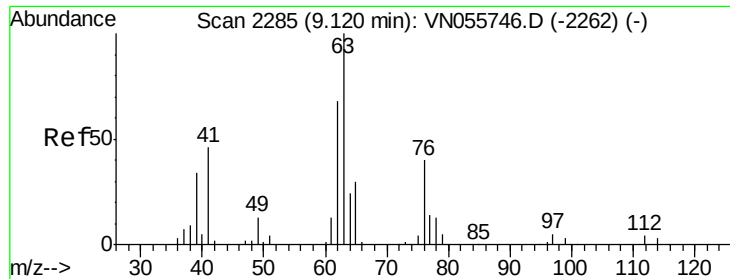
#43
 Isopropyl Acetate
 Concen: 27.116 ug/l
 RT: 8.14 min Scan# 1981
 Delta R.T. -0.02 min
 Lab File: VN055793.D
 Acq: 24 May 2019 14:02

Tgt Ion: 43 Resp: 213148
 Ion Ratio Lower Upper
 43 100
 61 0.1 22.2 33.4#
 87 0.0 11.4 17.2#



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

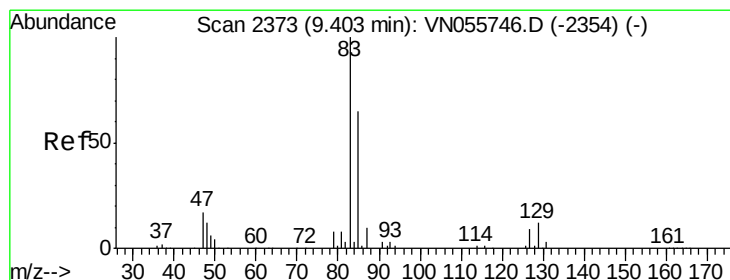
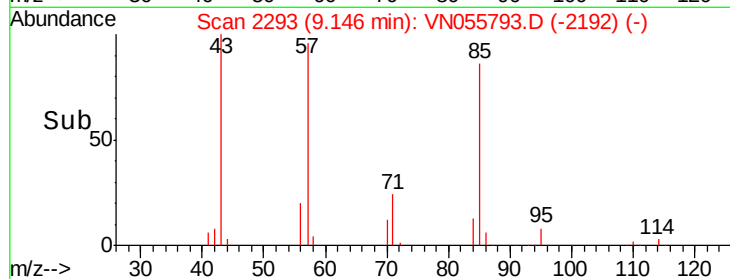
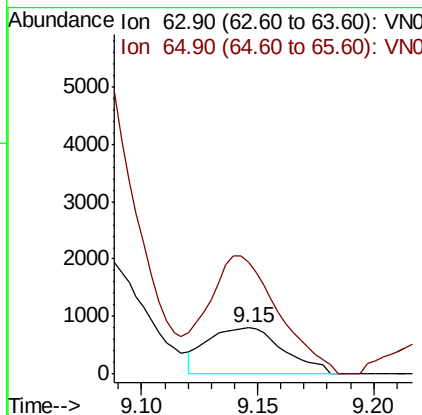
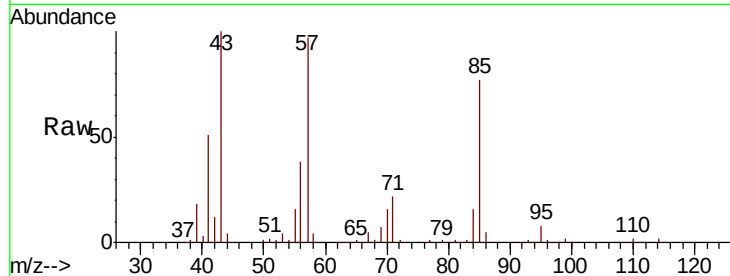




#45
 1,2-Dichloropropane
 Concen: 0.485 ug/l
 RT: 9.15 min Scan# 2293
 Delta R.T. 0.03 min
 Lab File: VN055793.D
 Acq: 24 May 2019 14:02

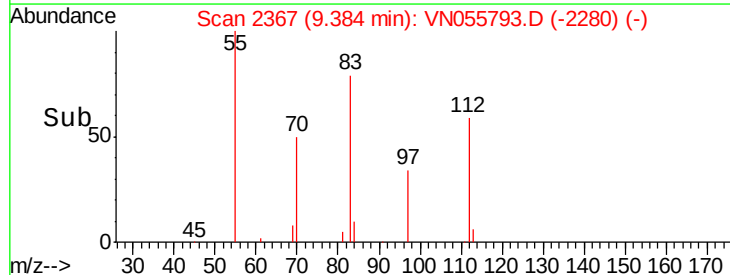
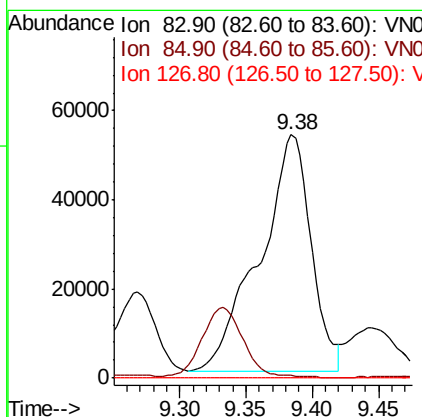
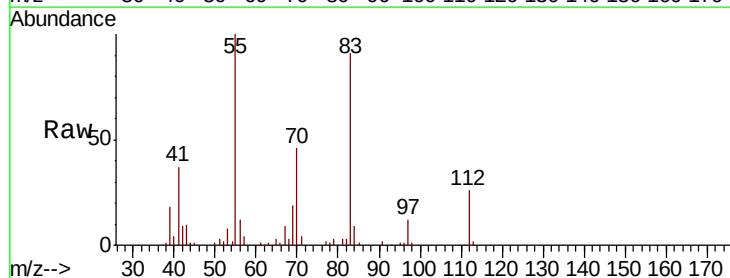
Instrument :
 MSVOA_N
 ClientSampled :
 P-3(4.5-5.0)DL

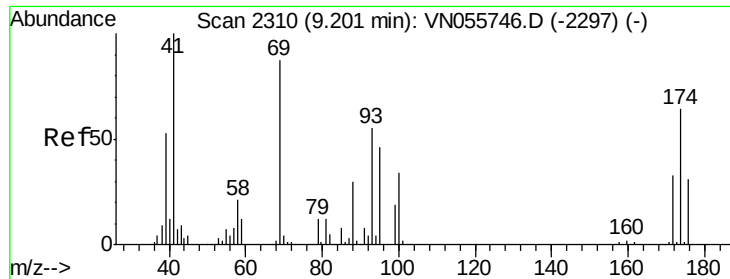
Tot Ion: 63 Resp: 1842
 Ion Ratio Lower Upper
 63 100
 65 243.0 24.6 36.8#



#47
 Bromodichloromethane
 Concen: 28.213 ug/l
 RT: 9.38 min Scan# 2367
 Delta R.T. -0.02 min
 Lab File: VN055793.D
 Acq: 24 May 2019 14:02

Tgt Ion: 83 Resp: 144211
 Ion Ratio Lower Upper
 83 100
 85 0.7 52.2 78.2#
 127 0.0 7.4 11.0#

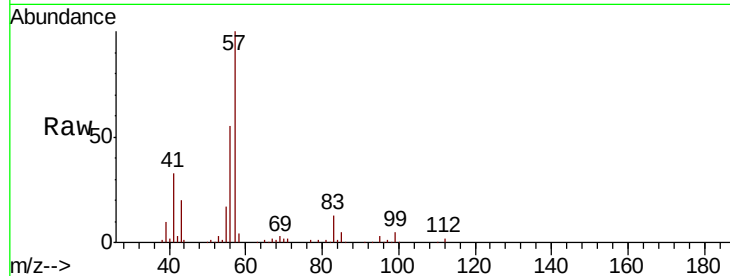




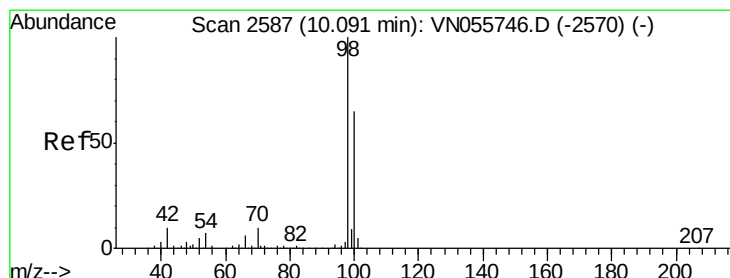
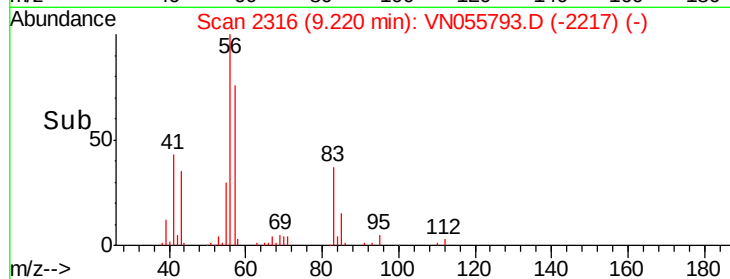
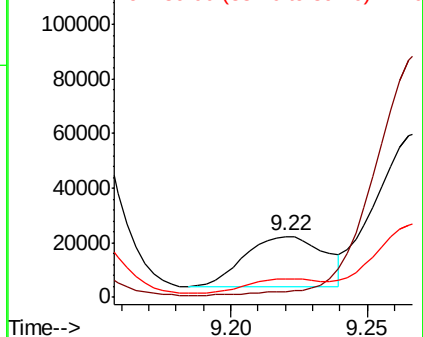
#48
Methvl methacrylate
Concen: 10.465 ug/l
RT: 9.22 min Scan# 2316
Delta R.T. 0.02 min
Lab File: VN055793.D
Acq: 24 May 2019 14:02

Instrument :
MSVOA_N
ClientSampled :
P-3(4.5-5.0)DL

Tot Ion: 41 Resp: 37914
Ion Ratio Lower Upper
41 100
69 0.0 71.0 106.6#
39 27.8 44.2 66.2#

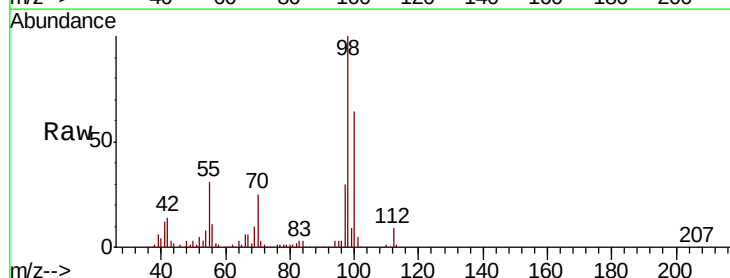


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

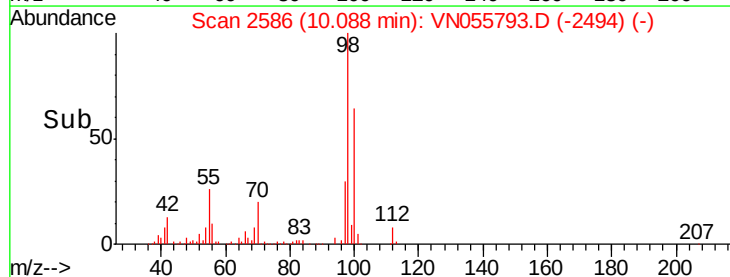
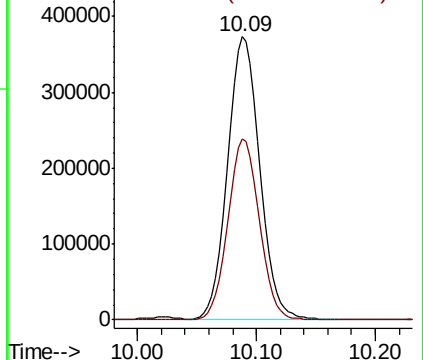


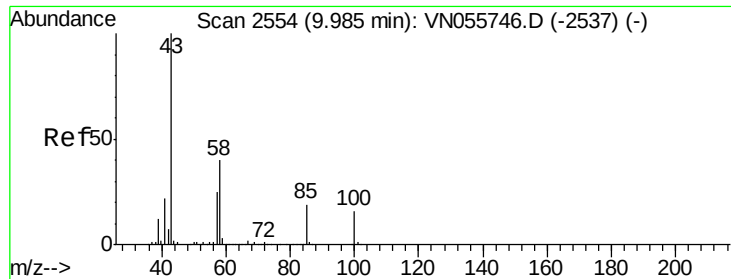
#50
Toluene-d8
Concen: 51.760 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN055793.D
Acq: 24 May 2019 14:02

Tgt Ion: 98 Resp: 697263
Ion Ratio Lower Upper
98 100
100 62.8 51.9 77.9



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: 15.887 ug/l

RT: 10.02 min Scan# 2565

Delta R.T. 0.04 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

Instrument :

MSVOA_N

ClientSampleId :

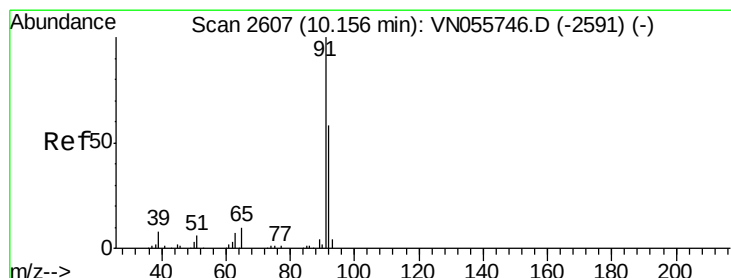
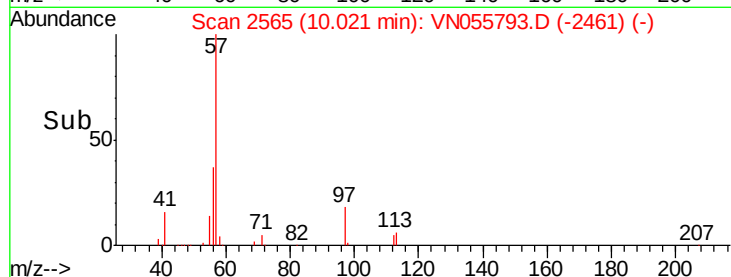
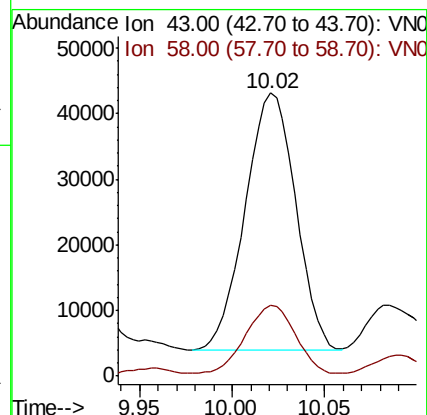
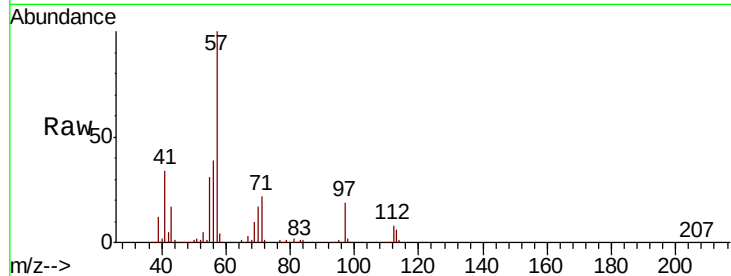
P-3(4.5-5.0)DL

Tot Ion: 43 Resp: 73756

Ion Ratio Lower Upper

43 100

58 26.2 32.1 48.1#



#52

Toluene

Concen: 211.479 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055793.D

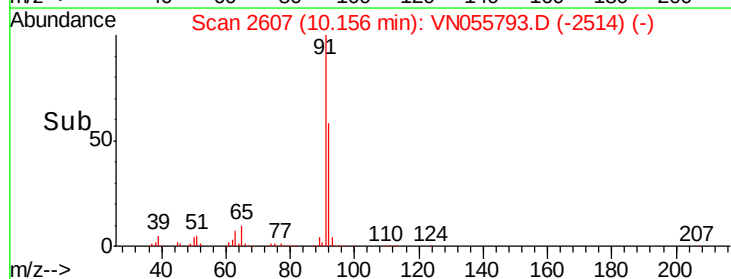
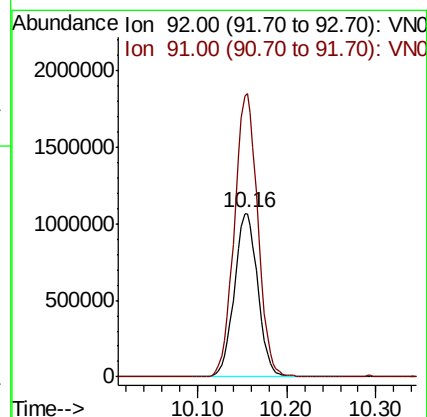
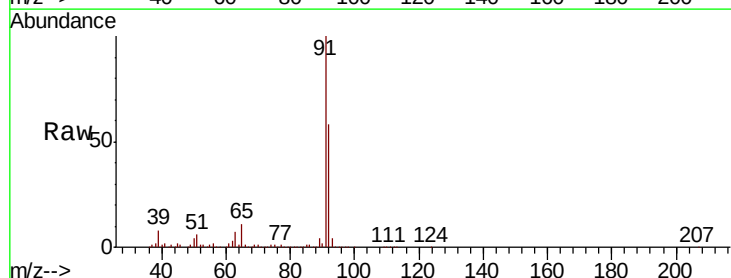
Acq: 24 May 2019 14:02

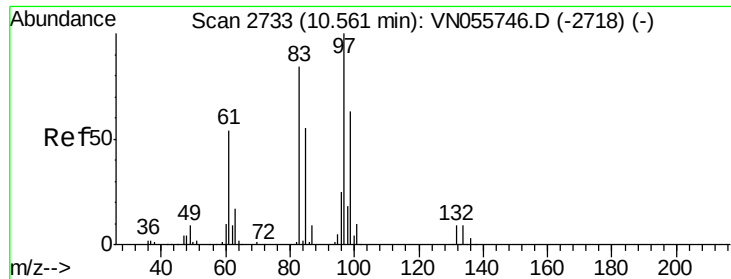
Tgt Ion: 92 Resp: 1940396

Ion Ratio Lower Upper

92 100

91 172.6 139.4 209.2





#55

1,1,2-Trichloroethane

Concen: 53.084 ug/l

RT: 10.53 min Scan# 2723

Delta R.T. -0.03 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

Instrument :

MSVOA_N

ClientSampled :

P-3(4.5-5.0)DL

Tot Ion: 97 Resp: 195124

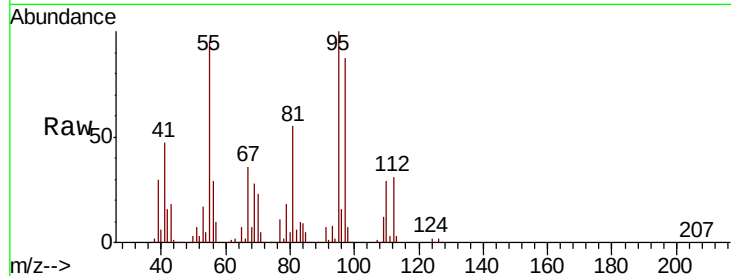
Ion Ratio Lower Upper

97 100

83 1.1 67.0 100.6#

85 5.4 44.0 66.0#

99 0.3 50.6 75.8#



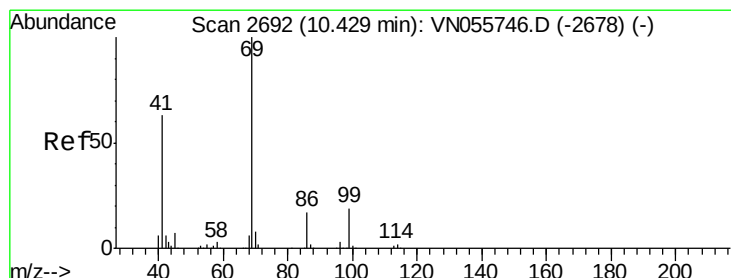
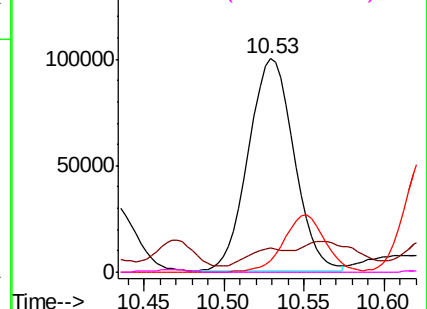
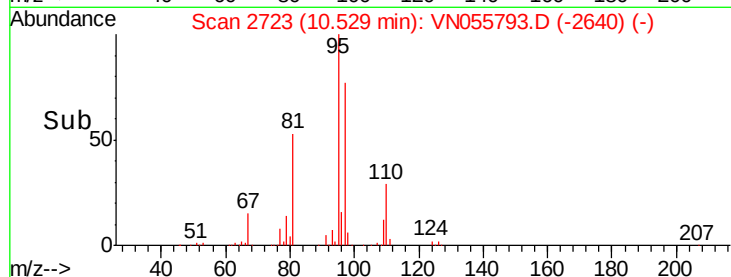
Abundance

Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56

Ethyl methacrylate

Concen: 7.571 ug/l

RT: 10.47 min Scan# 2705

Delta R.T. 0.04 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

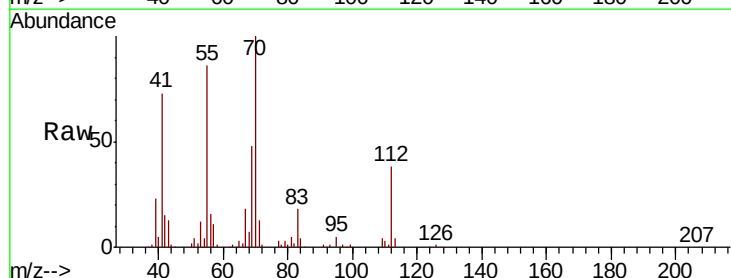
Tgt Ion: 69 Resp: 43009

Ion Ratio Lower Upper

69 100

41 138.9 49.7 74.5#

39 30.3 24.7 37.1

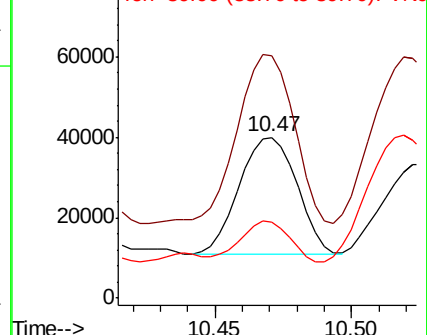
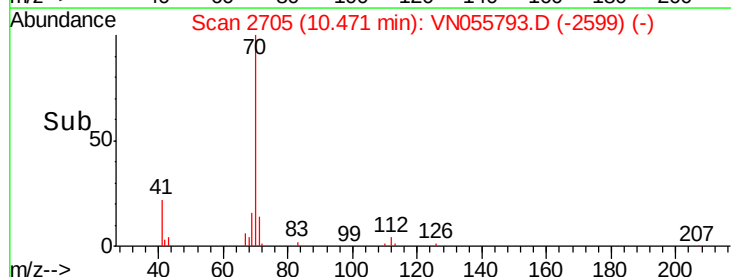


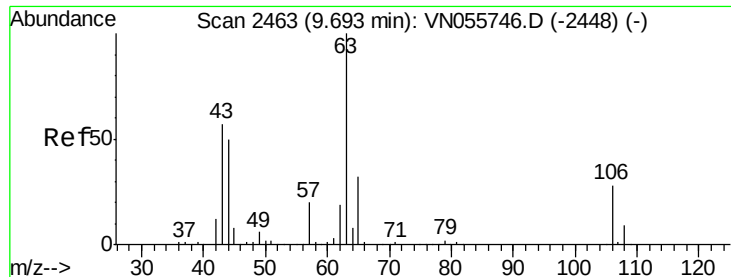
Abundance

Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

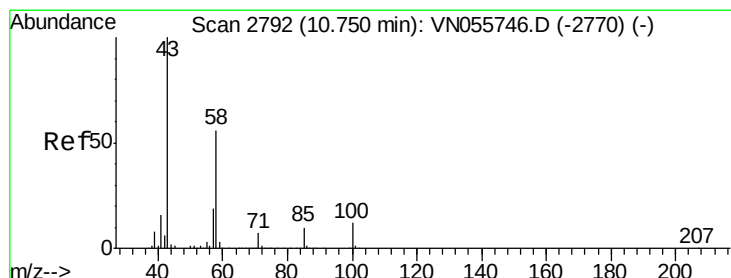
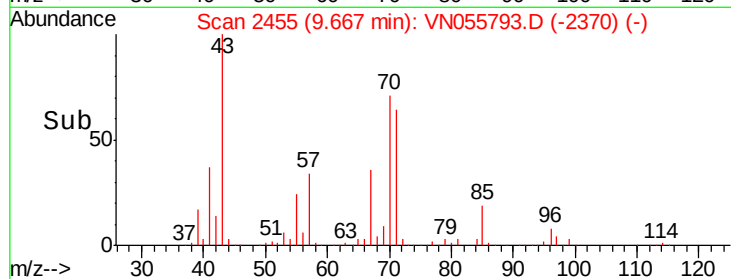
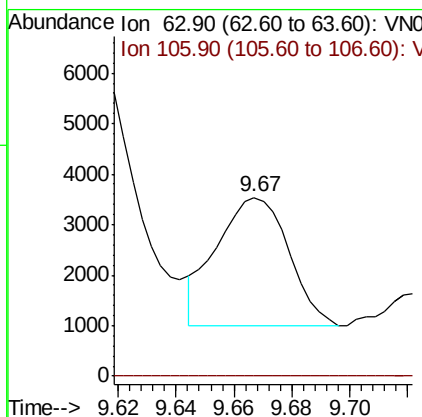
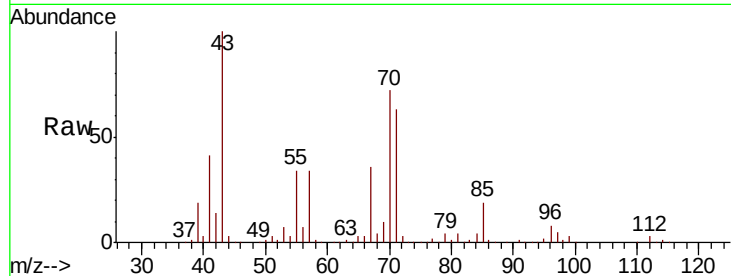




#58
 2-Chloroethyl Vinyl ether
 Concen: 2.034 ug/l
 RT: 9.67 min Scan# 2455
 Delta R.T. -0.03 min
 Lab File: VN055793.D
 Acq: 24 May 2019 14:02

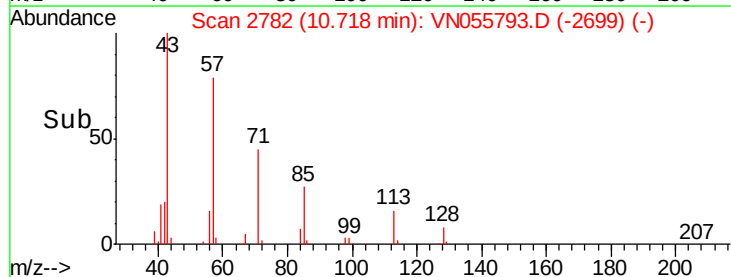
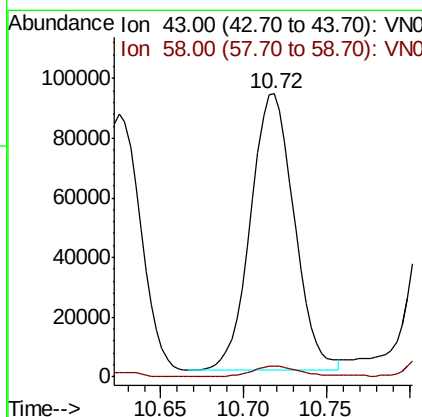
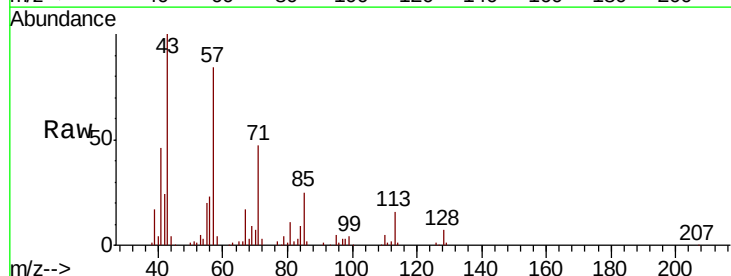
Instrument :
 MSVOA_N
 ClientSampleId :
 P-3(4.5-5.0)DL

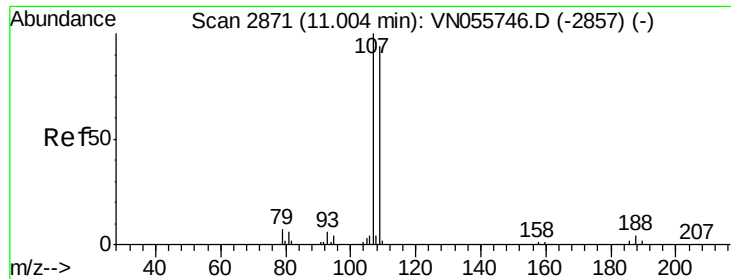
Tot Ion: 63 Resp: 4416
 Ion Ratio Lower Upper
 63 100
 106 0.0 22.7 34.1#



#59
 2-Hexanone
 Concen: 51.728 ug/l
 RT: 10.72 min Scan# 2782
 Delta R.T. -0.03 min
 Lab File: VN055793.D
 Acq: 24 May 2019 14:02

Tgt Ion: 43 Resp: 170366
 Ion Ratio Lower Upper
 43 100
 58 4.8 28.2 84.7#

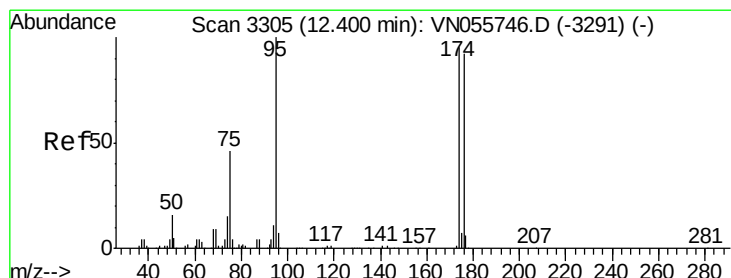
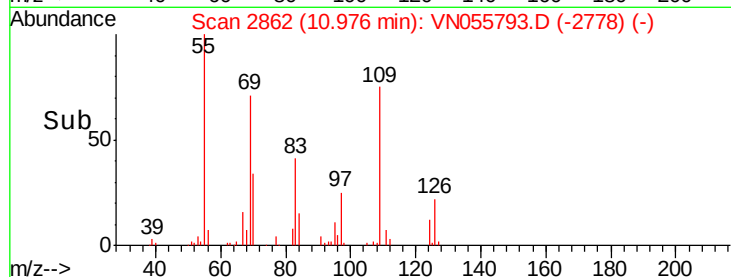
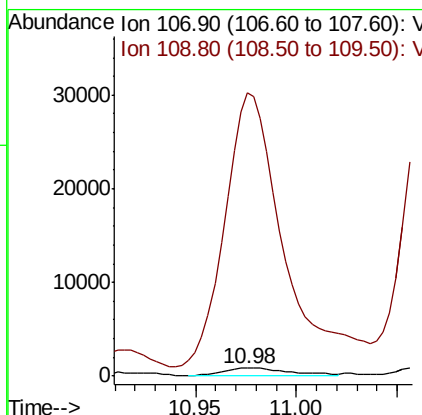
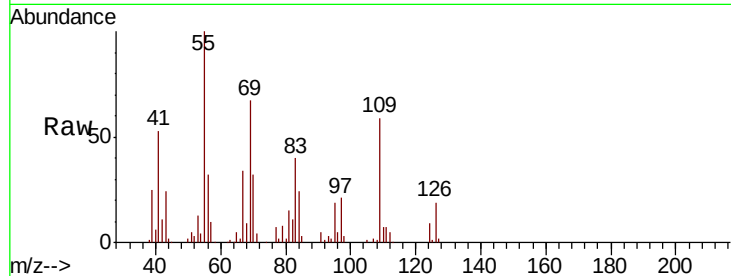




#61
 1,2-Dibromoethane
 Concen: 0.550 ug/l
 RT: 10.98 min Scan# 2862
 Delta R.T. -0.03 min
 Lab File: VN055793.D
 Acq: 24 May 2019 14:02

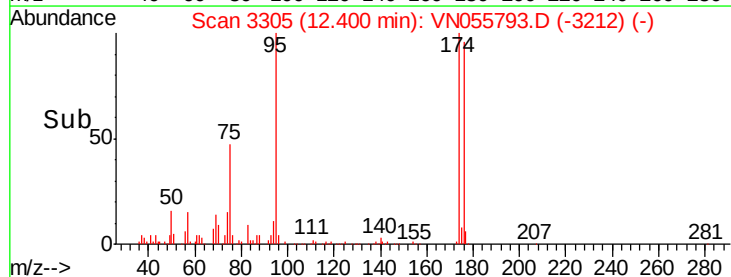
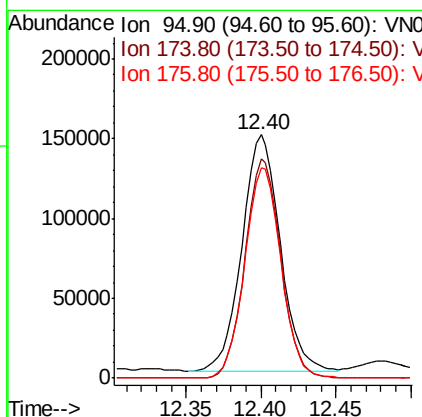
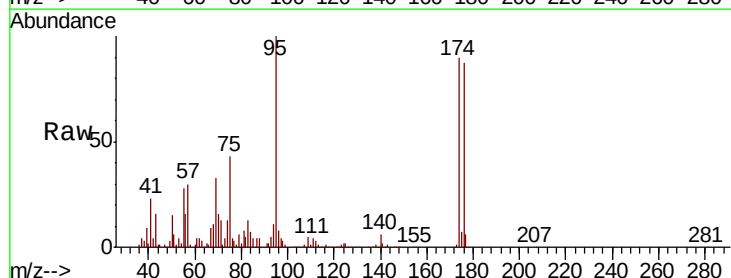
Instrument :
 MSVOA_N
 ClientSampleId :
 P-3(4.5-5.0)DL

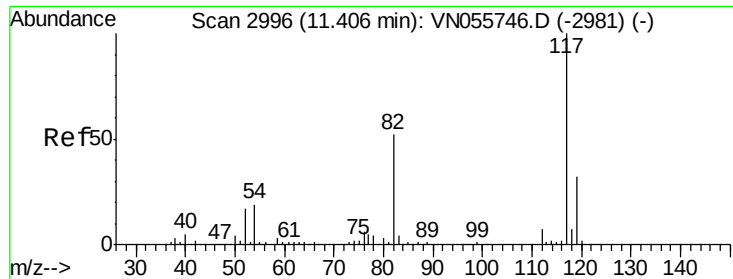
Tot Ion:107 Resp: 2097
 Ion Ratio Lower Upper
 107 100
 109 2836.6 74.8 112.2#



#62
 4-Bromofluorobenzene
 Concen: 56.997 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN055793.D
 Acq: 24 May 2019 14:02

Tgt Ion: 95 Resp: 263274
 Ion Ratio Lower Upper
 95 100
 174 87.1 0.0 191.0
 176 84.7 0.0 185.2

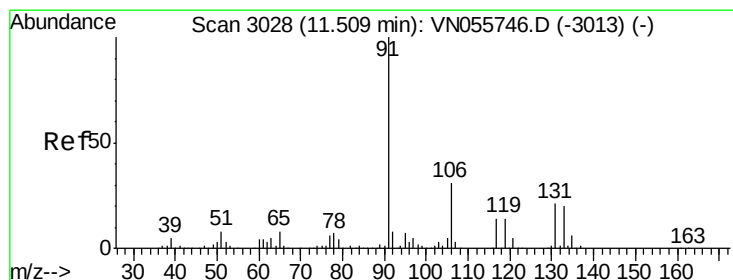
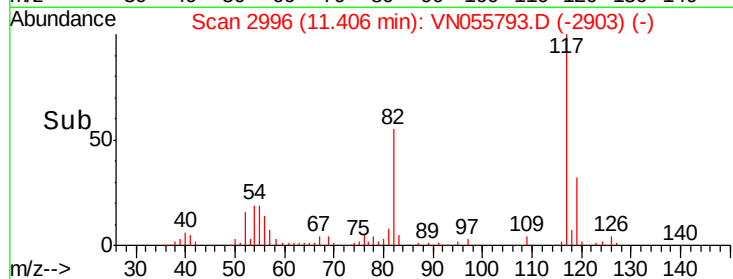
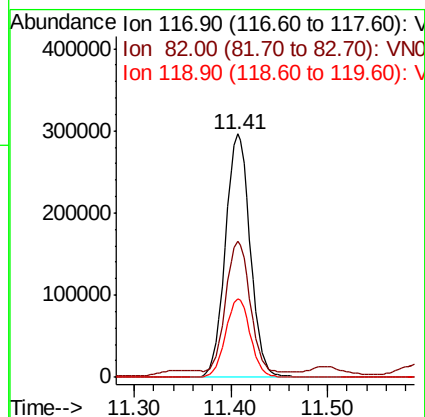
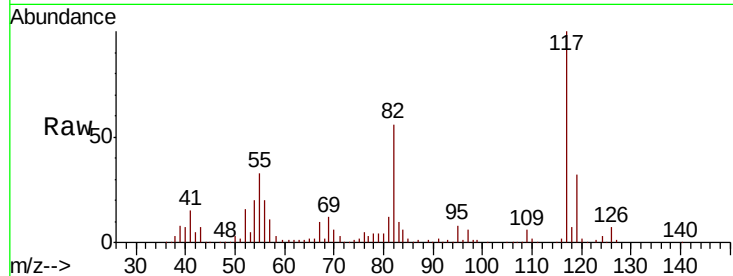




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055793.D
Acq: 24 May 2019 14:02

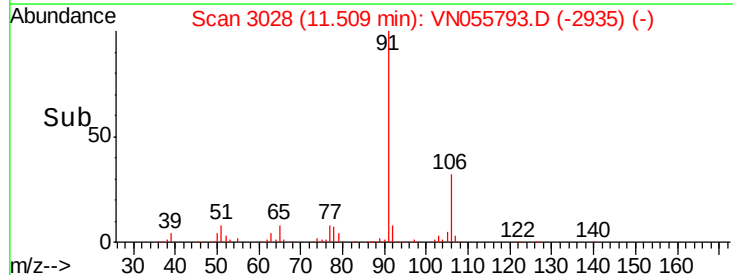
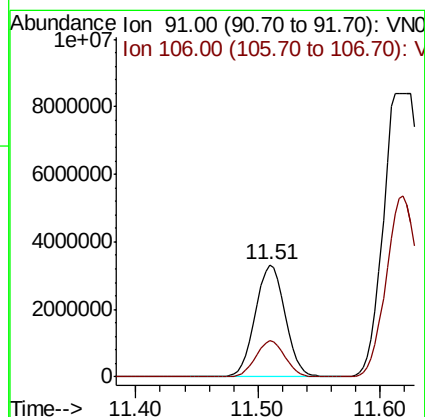
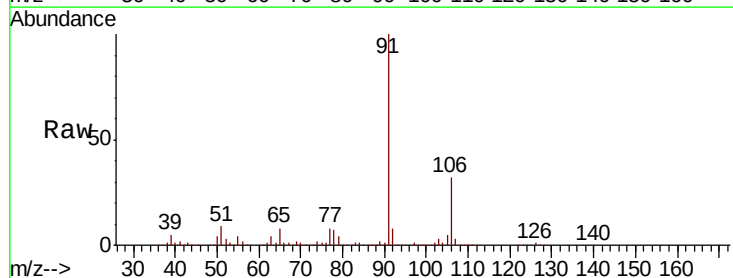
Instrument :
MSVOA_N
ClientSampleId :
P-3(4.5-5.0)DL

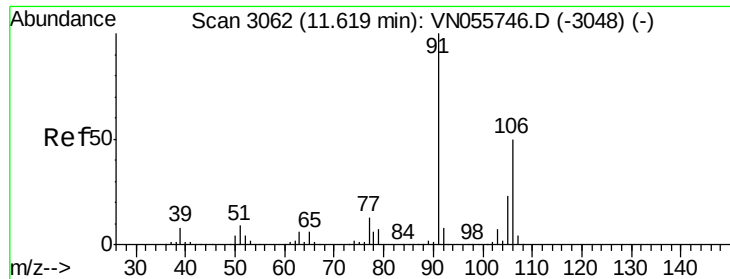
Tot Ion:117 Resp: 527458
Ion Ratio Lower Upper
117 100
82 52.9 41.8 62.8
119 32.1 25.4 38.0



#67
Ethyl Benzene
Concen: 295.109 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055793.D
Acq: 24 May 2019 14:02

Tgt Ion: 91 Resp: 5588036
Ion Ratio Lower Upper
91 100
106 32.0 25.1 37.7

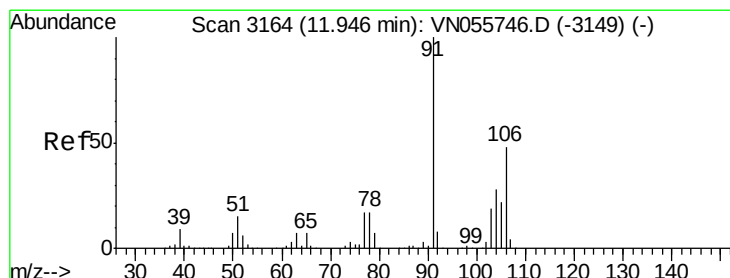
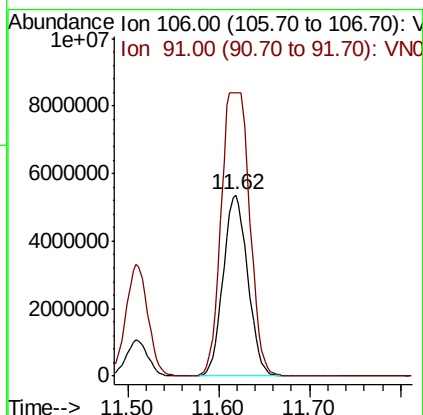
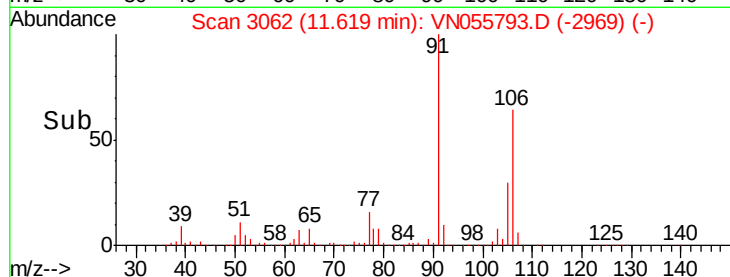
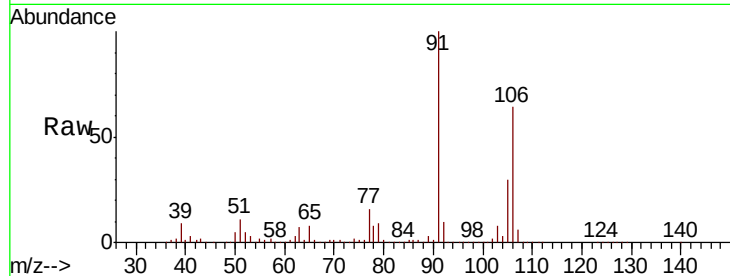




#68
m/p-Xylenes
Concen: 1405.912 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN055793.D
Acq: 24 May 2019 14:02

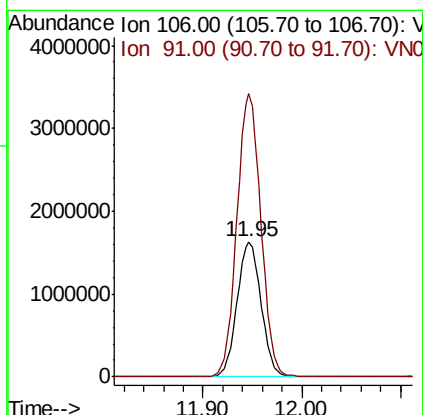
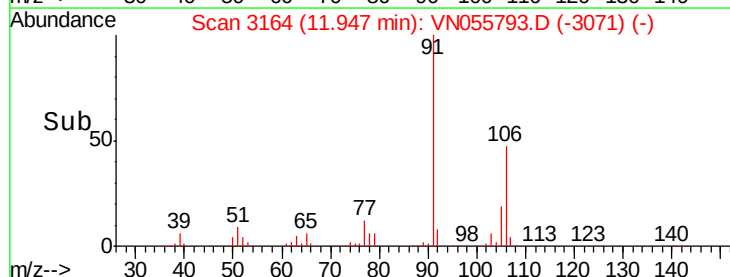
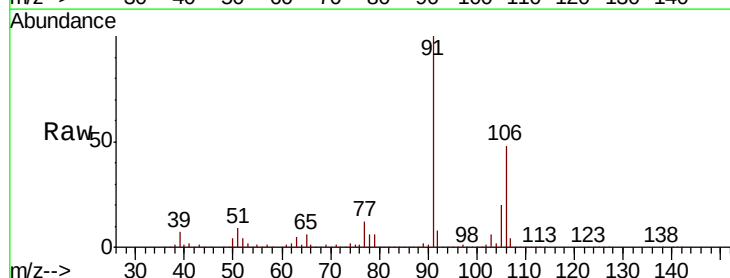
Instrument :
MSVOA_N
ClientSampleId :
P-3(4.5-5.0)DL

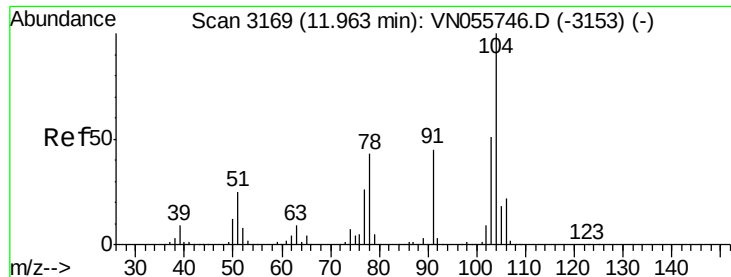
Tot Ion:106 Resp:10064280
Ion Ratio Lower Upper
106 100
91 0.0 159.3 238.9#



#69
o-Xylene
Concen: 386.624 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055793.D
Acq: 24 May 2019 14:02

Tgt Ion:106 Resp: 2745891
Ion Ratio Lower Upper
106 100
91 209.2 104.7 314.1

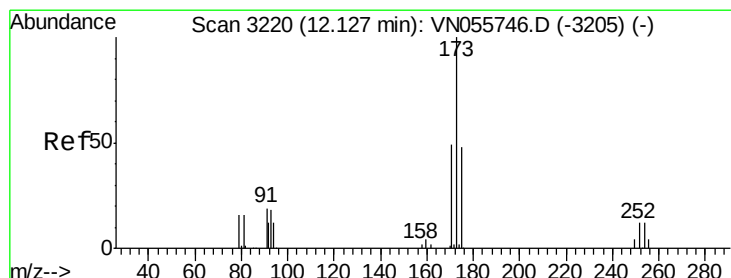
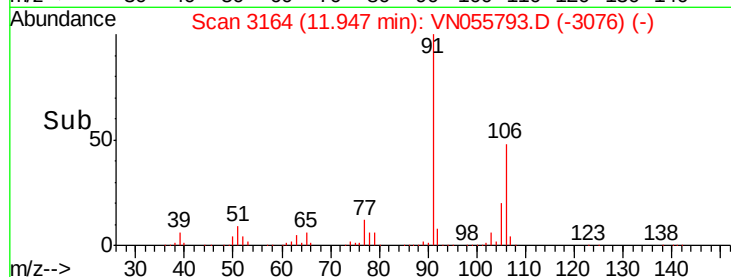
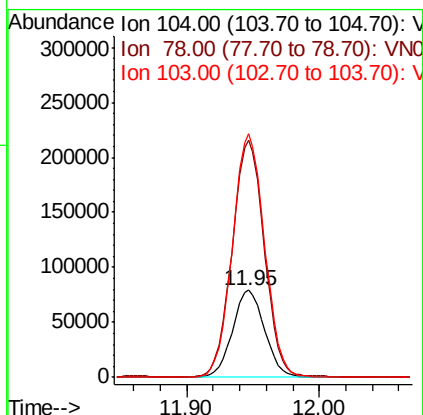
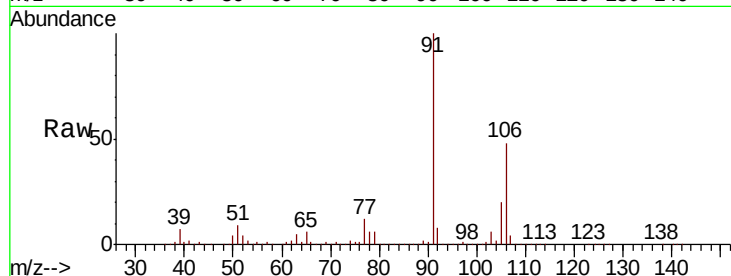




#70
Stvrene
Concen: 11.559 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.02 min
Lab File: VN055793.D
Acq: 24 May 2019 14:02

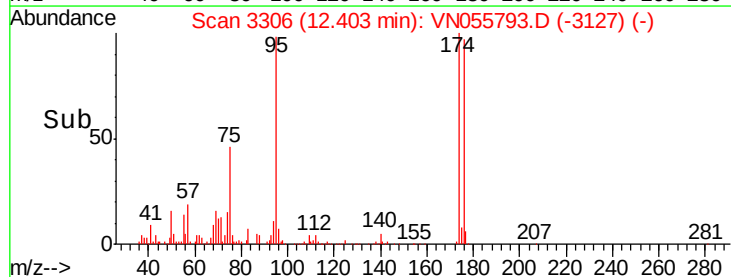
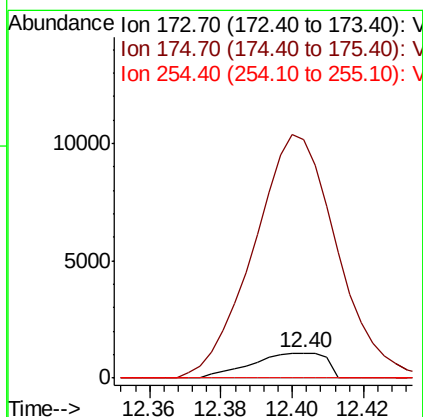
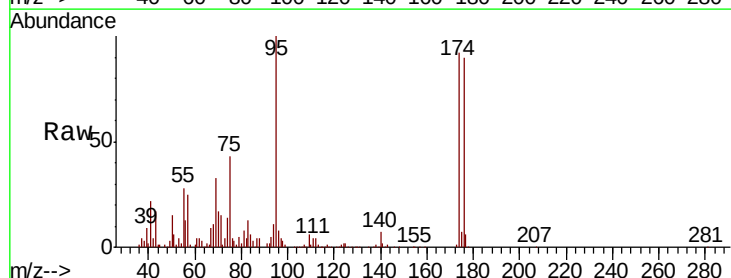
Instrument :
MSVOA_N
ClientSampleId :
P-3(4.5-5.0)DL

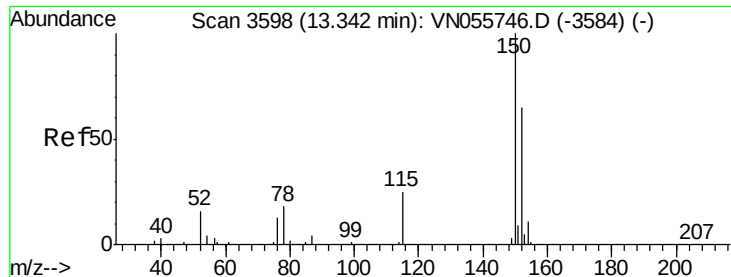
Tot Ion:104 Resp: 132949
Ion Ratio Lower Upper
104 100
78 272.3 37.8 56.6#
103 279.9 44.2 66.2#



#71
Bromoform
Concen: 0.427 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN055793.D
Acq: 24 May 2019 14:02

Tgt Ion:173 Resp: 1533
Ion Ratio Lower Upper
173 100
175 974.6 24.3 72.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

Instrument :

MSVOA_N

ClientSampleId :

P-3(4.5-5.0)DL

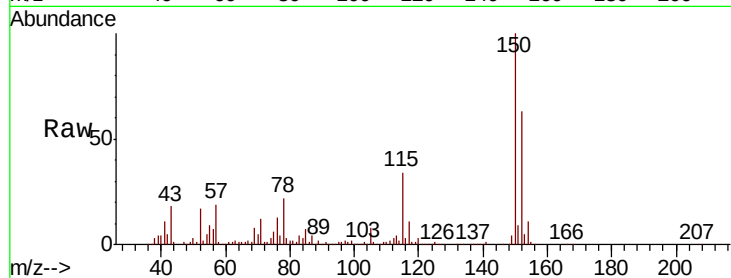
Tot Ion:152 Resp: 254905

Ion Ratio Lower Upper

152 100

115 52.1 27.0 81.0

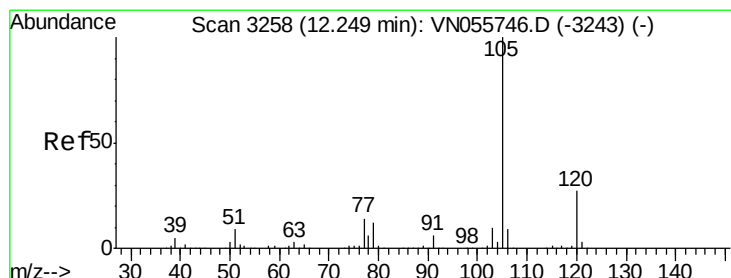
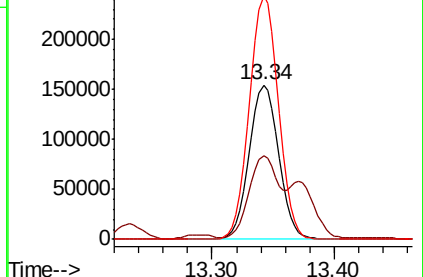
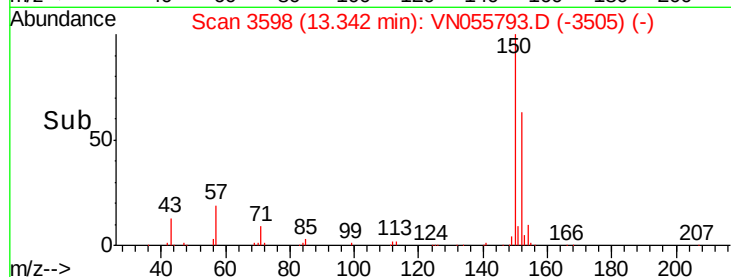
150 155.4 0.0 343.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 82.474 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055793.D

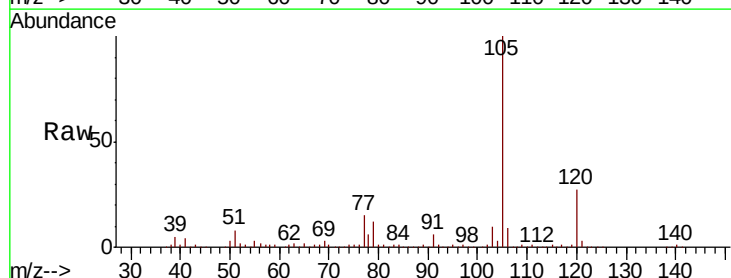
Acq: 24 May 2019 14:02

Tgt Ion:105 Resp: 1464043

Ion Ratio Lower Upper

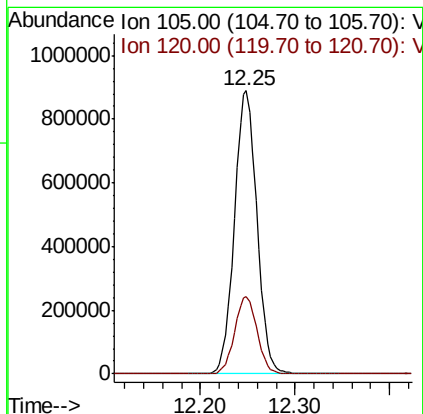
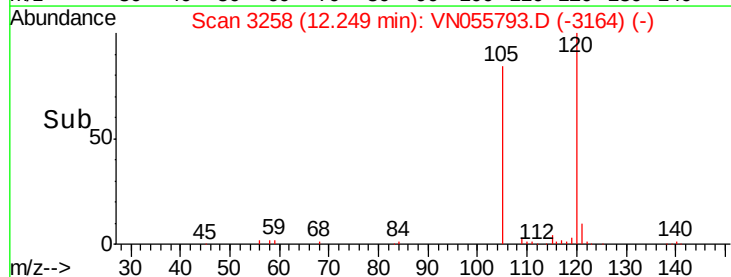
105 100

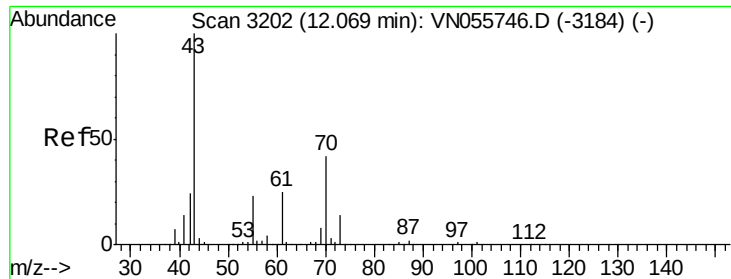
120 27.3 13.6 40.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 10.126 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.02 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

Instrument :

MSVOA_N

ClientSampled :

P-3(4.5-5.0)DL

Tot Ion: 43 Resp: 82440

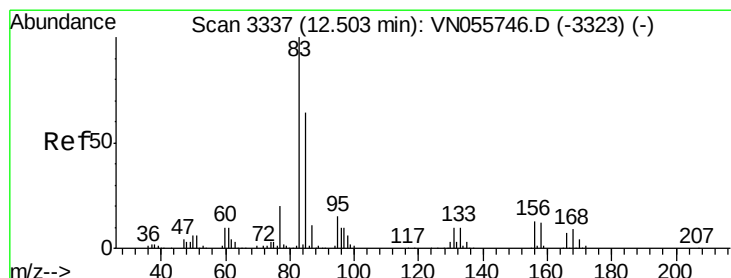
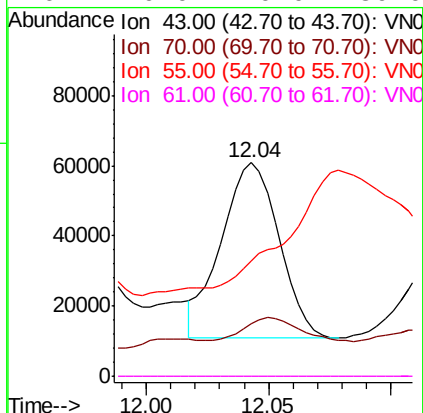
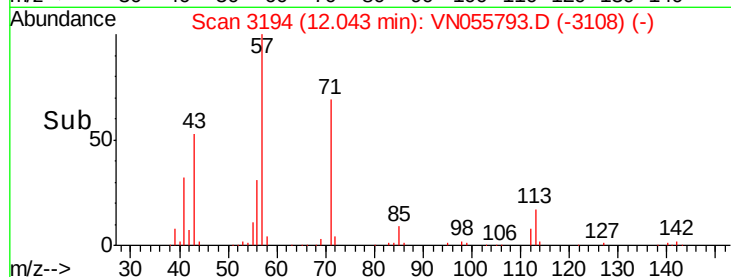
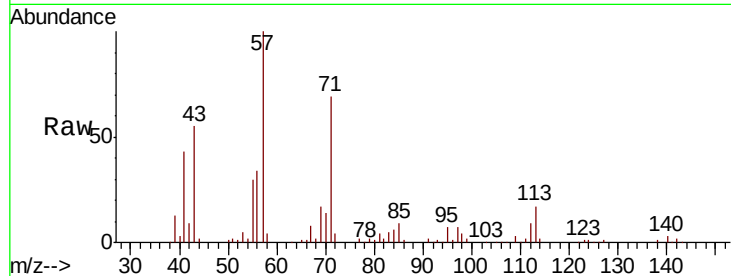
Ion Ratio Lower Upper

43 100

70 14.3 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.49 min Scan# 3333

Delta R.T. -0.01 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

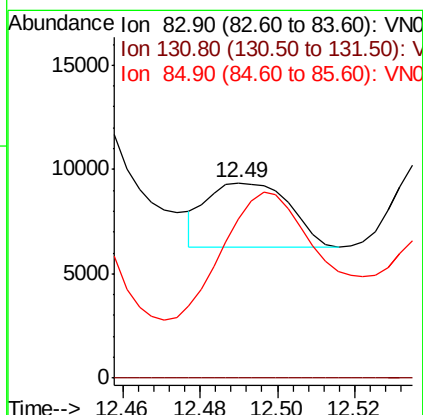
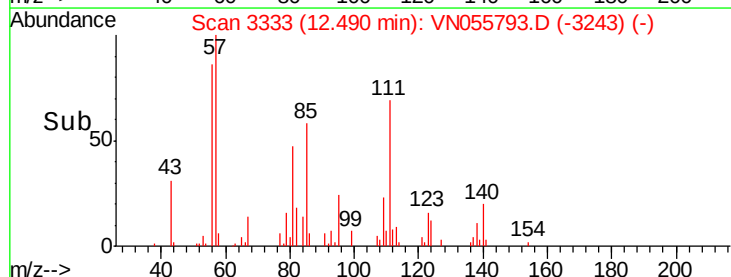
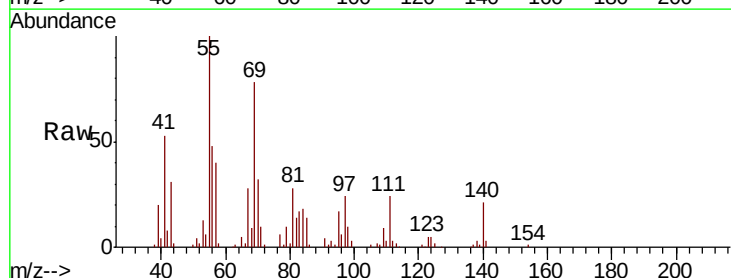
Tgt Ion: 83 Resp: 4529

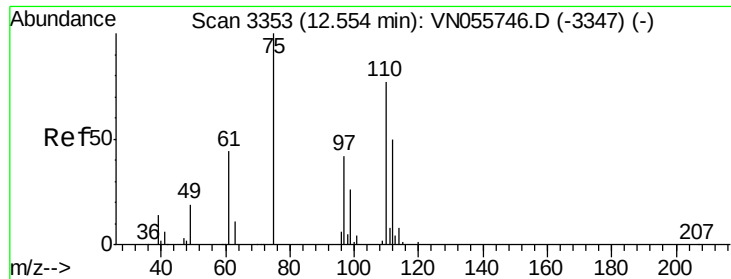
Ion Ratio Lower Upper

83 100

131 0.0 5.4 16.2#

85 230.2 32.4 97.0#

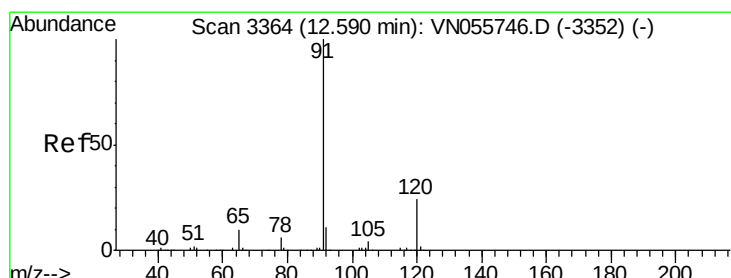
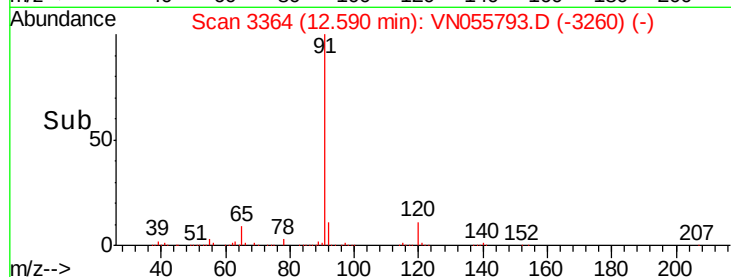
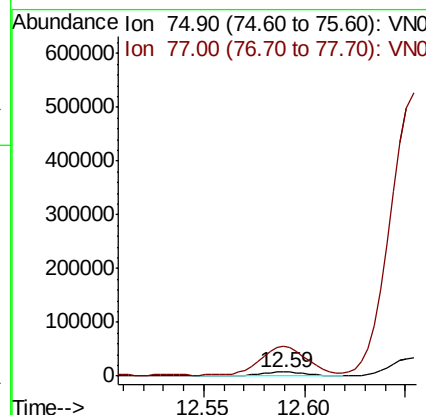
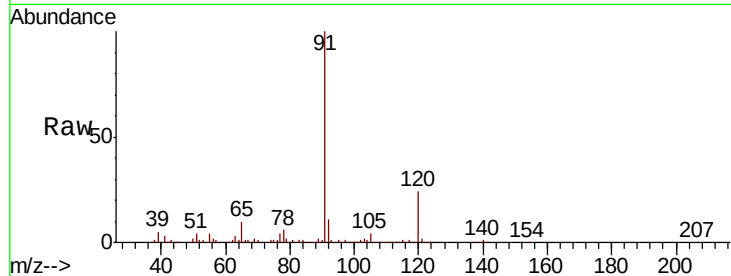




#76
 1,2,3-Trichloropropane
 Concen: Below Cal
 RT: 12.59 min Scan# 3364
 Delta R.T. 0.04 min
 Lab File: VN055793.D
 Acq: 24 May 2019 14:02

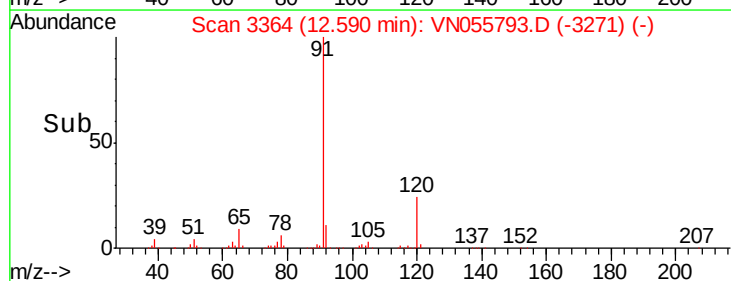
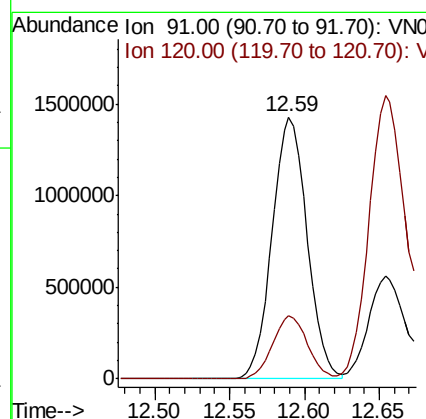
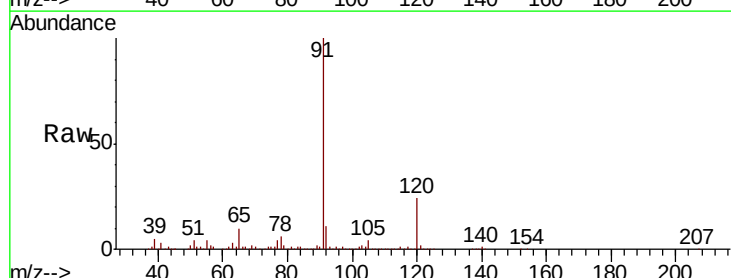
Instrument :
 MSVOA_N
 ClientSampleId :
 P-3(4.5-5.0)DL

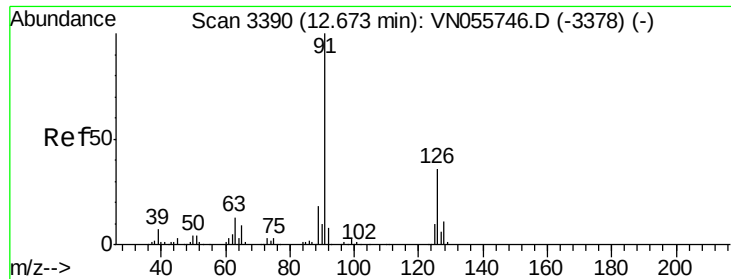
Tot Ion: 75 Resp: 12645
 Ion Ratio Lower Upper
 75 100
 77 673.0 0.0 0.0#



#78
 n-propylbenzene
 Concen: 104.406 ug/l
 RT: 12.59 min Scan# 3364
 Delta R.T. 0.00 min
 Lab File: VN055793.D
 Acq: 24 May 2019 14:02

Tgt Ion: 91 Resp: 2313094
 Ion Ratio Lower Upper
 91 100
 120 24.1 12.0 36.0





#79

2-Chlorotoluene

Concen: 73.696 ug/l

RT: 12.65 min Scan# 3384

Delta R.T. -0.02 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

Instrument :

MSVOA_N

ClientSampled :

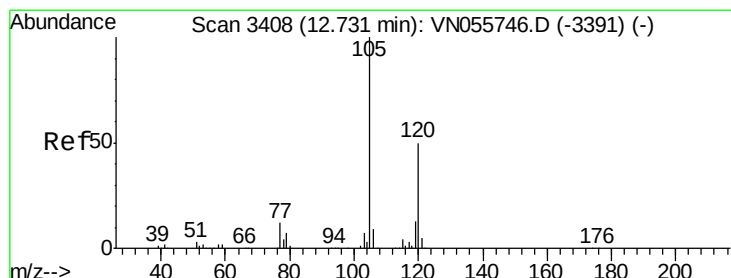
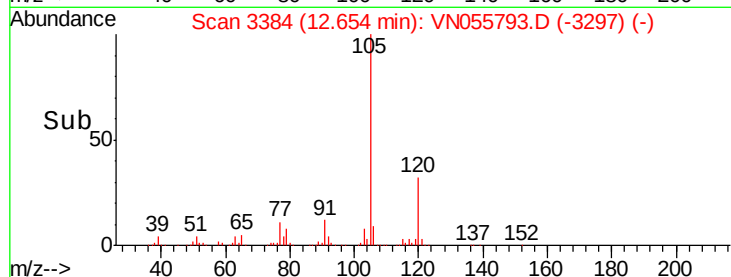
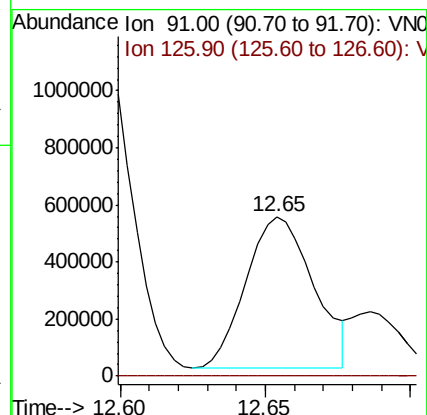
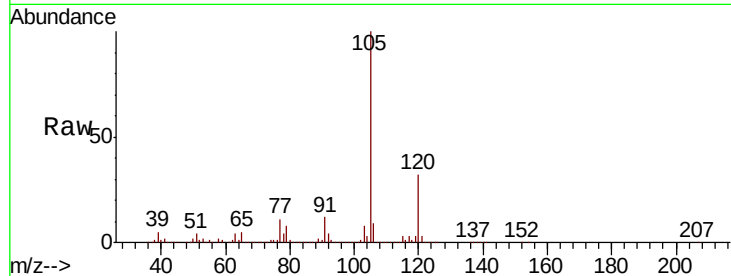
P-3(4.5-5.0)DL

Tot Ion: 91 Resp: 865029

Ion Ratio Lower Upper

91 100

126 0.1 18.1 54.4#



#80

1,3,5-Trimethylbenzene

Concen: 234.376 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055793.D

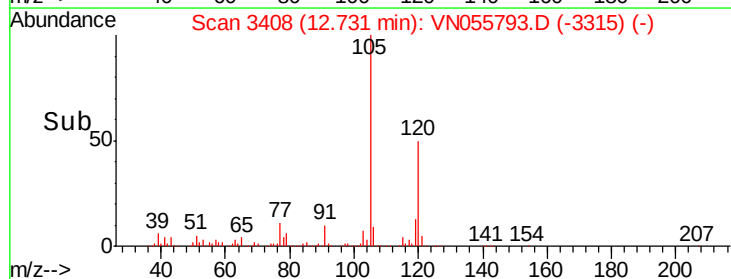
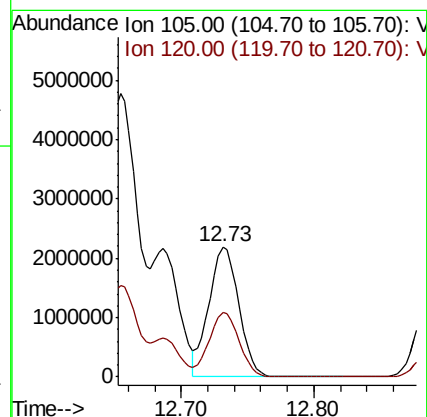
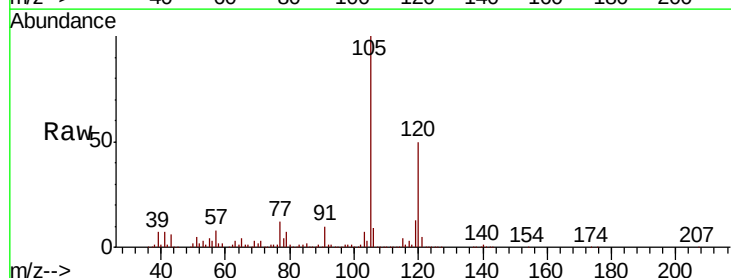
Acq: 24 May 2019 14:02

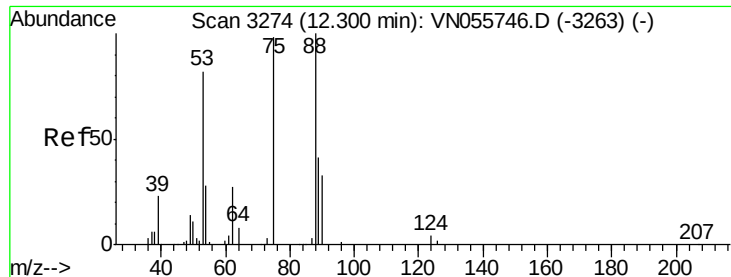
Tgt Ion:105 Resp: 3433108

Ion Ratio Lower Upper

105 100

120 49.6 24.7 74.1





#81

trans-1,4-Dichloro-2-butene

Concen: 7.903 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.05 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

Instrument :

MSVOA_N

ClientSampleId :

P-3(4.5-5.0)DL

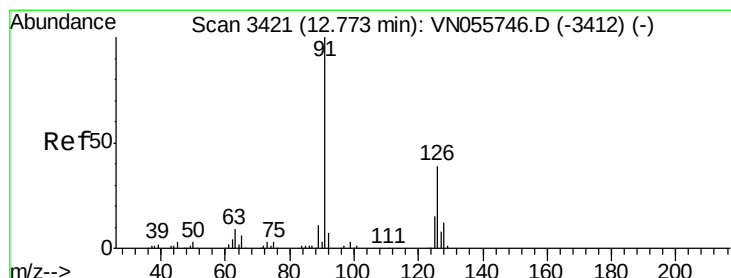
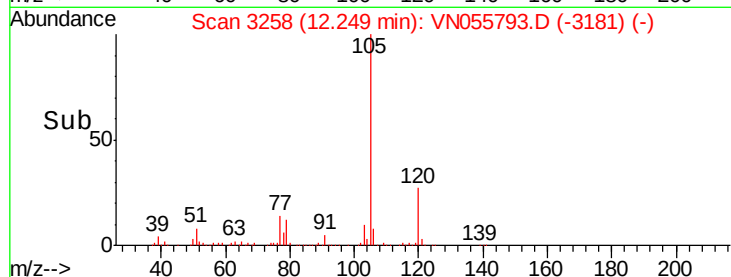
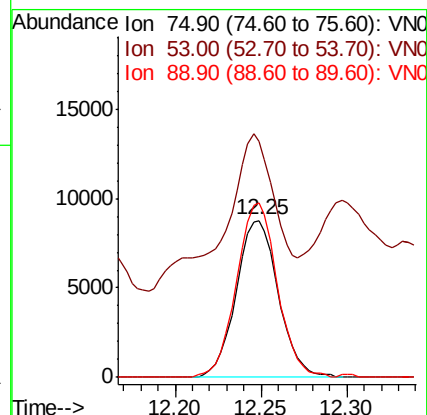
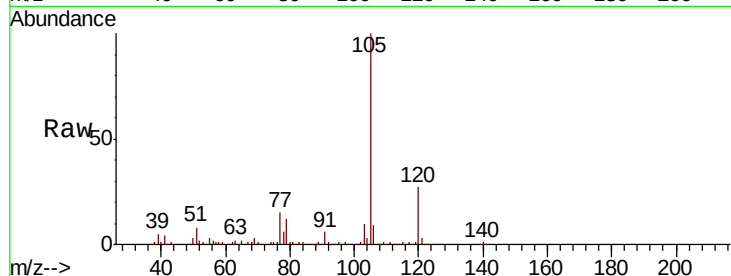
Tot Ion: 75 Resp: 14973

Ion Ratio Lower Upper

75 100

53 123.3 68.1 102.1#

89 107.8 36.9 55.3#



#82

4-Chlorotoluene

Concen: 25.471 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.04 min

Lab File: VN055793.D

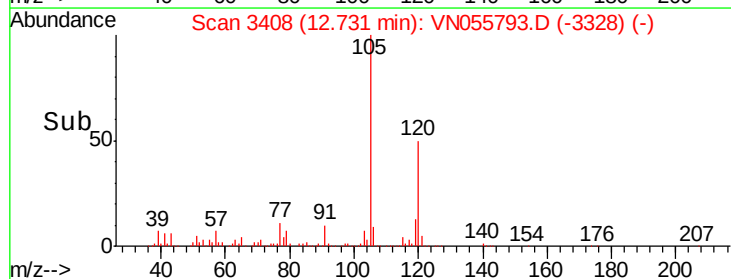
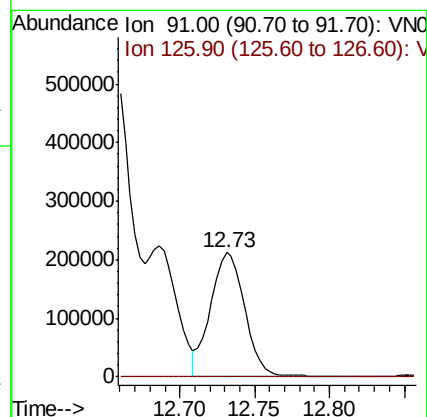
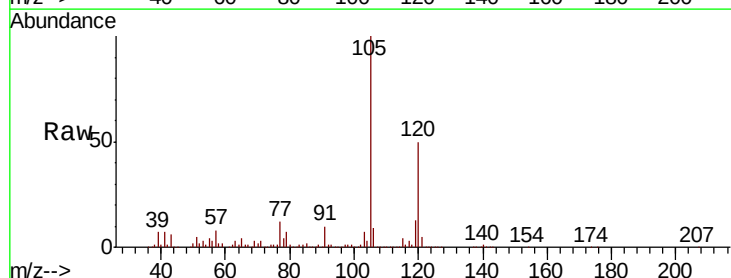
Acq: 24 May 2019 14:02

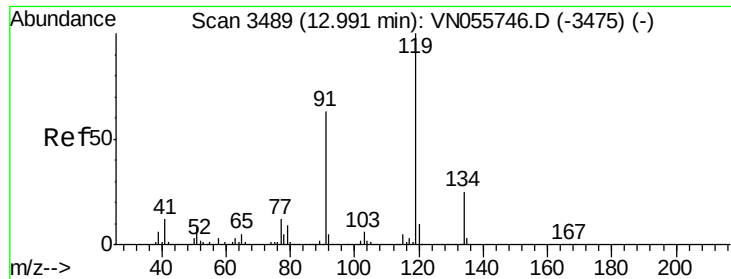
Tgt Ion: 91 Resp: 331712

Ion Ratio Lower Upper

91 100

126 0.2 17.8 53.3#

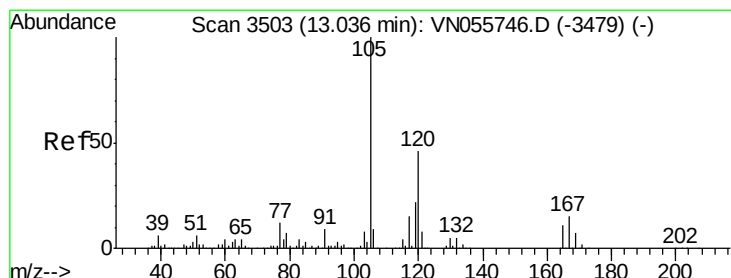
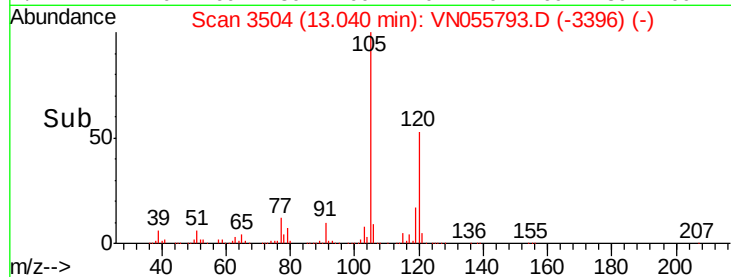
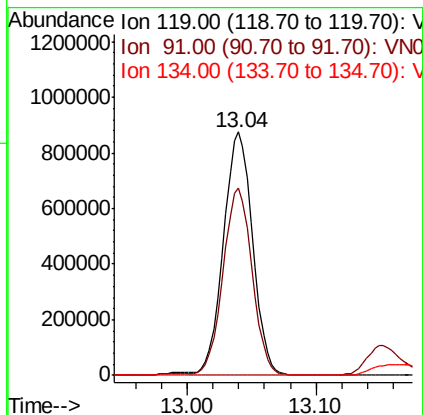
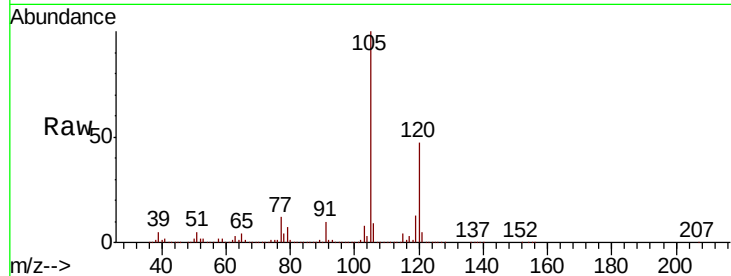




#83
 tert-Butylbenzene
 Concen: 107.343 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.05 min
 Lab File: VN055793.D
 Acq: 24 May 2019 14:02

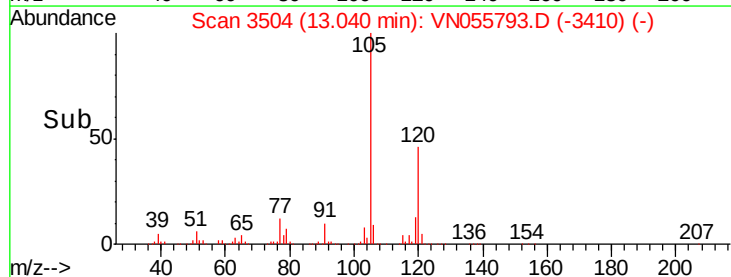
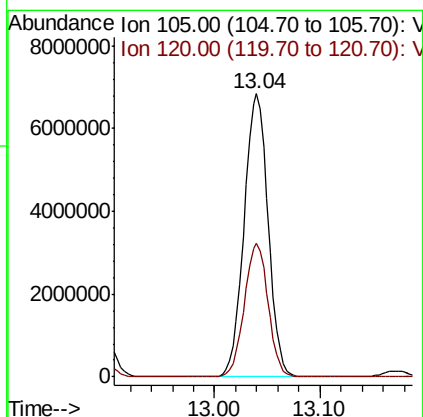
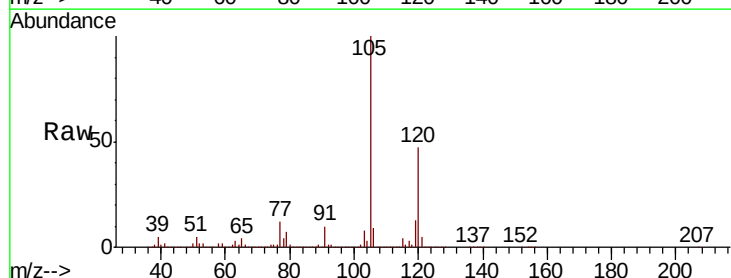
Instrument :
 MSVOA_N
 ClientSampled :
 P-3(4.5-5.0)DL

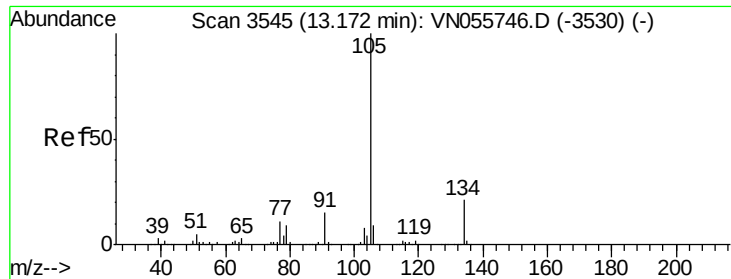
Tot Ion:119 Resp: 1370385
 Ion Ratio Lower Upper
 119 100
 91 75.7 30.9 92.8
 134 0.0 13.3 39.8#



#84
 1,2,4-Trimethylbenzene
 Concen: 739.457 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN055793.D
 Acq: 24 May 2019 14:02

Tgt Ion:105 Resp:10775627
 Ion Ratio Lower Upper
 105 100
 120 46.9 23.0 69.0





#85

sec-Butylbenzene

Concen: 656.614 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.13 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

Instrument :

MSVOA_N

ClientSampleId :

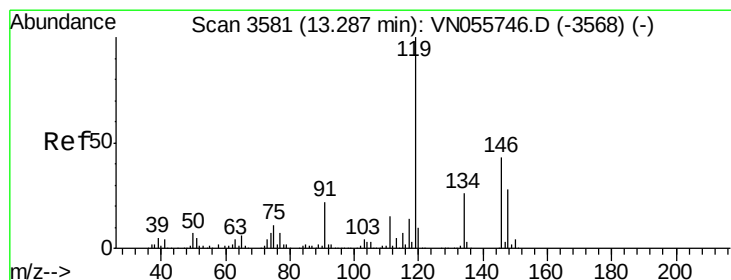
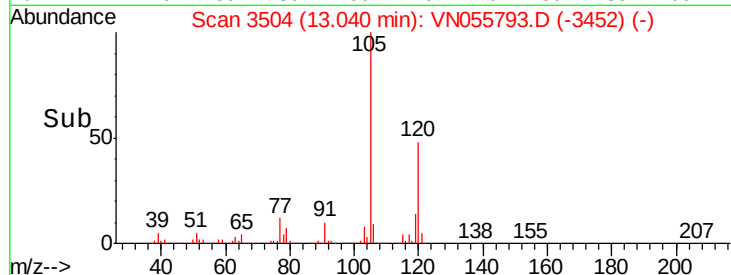
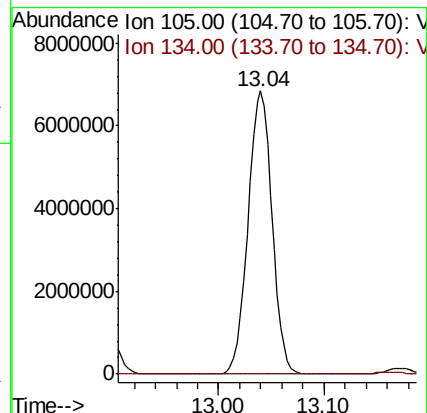
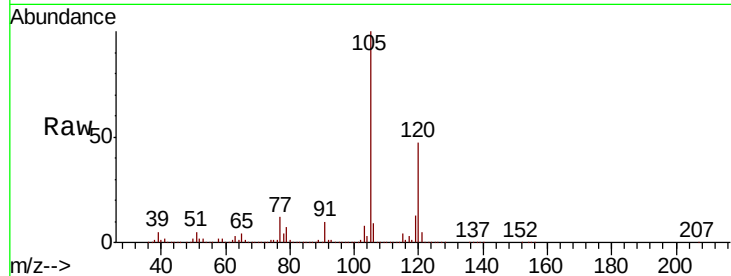
P-3(4.5-5.0)DL

Tot Ion:105 Resp:10775627

Ion Ratio Lower Upper

105 100

134 0.0 10.4 31.2#



#86

p-Isopropyltoluene

Concen: 19.555 ug/l

RT: 13.23 min Scan# 3564

Delta R.T. -0.05 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

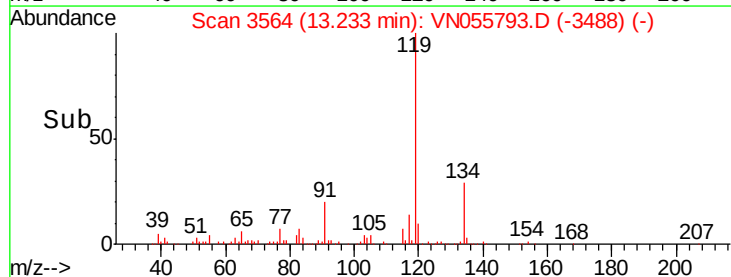
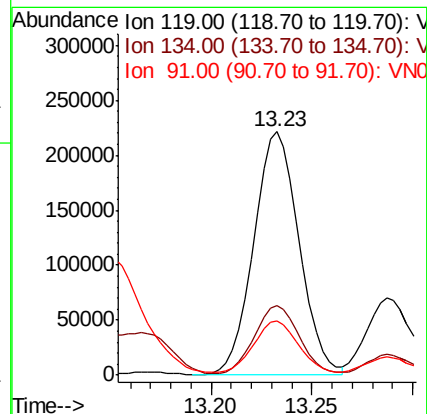
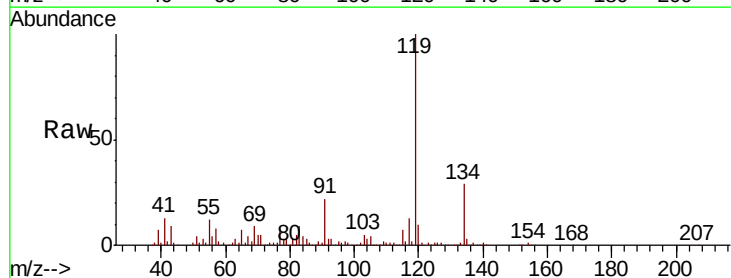
Tgt Ion:119 Resp: 346174

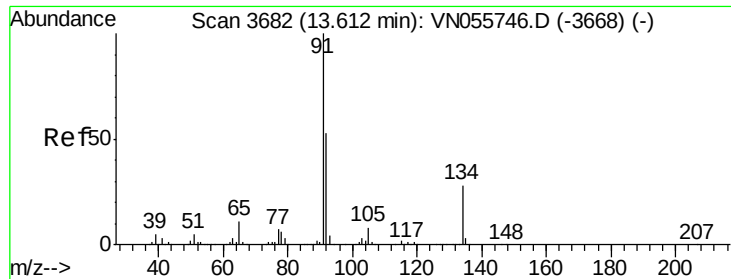
Ion Ratio Lower Upper

119 100

134 29.0 13.4 40.1

91 20.7 10.9 32.9

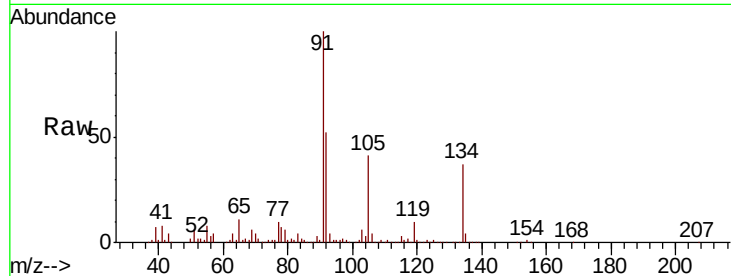




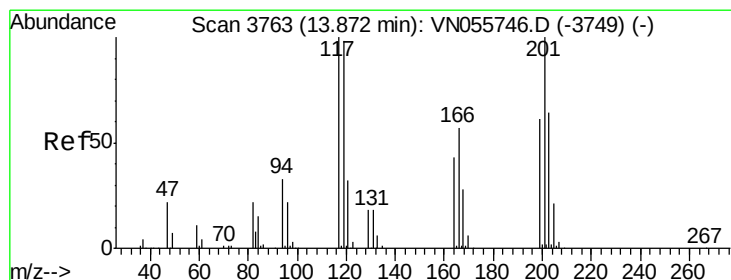
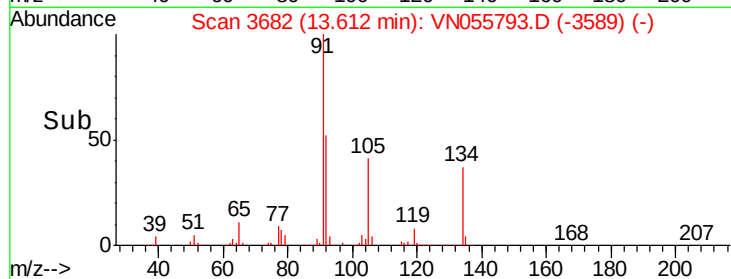
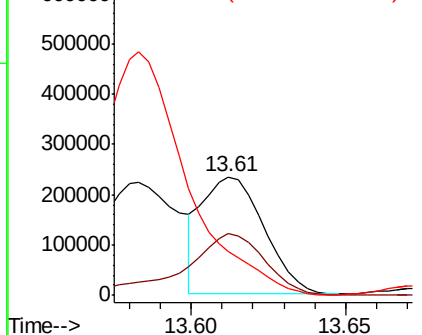
#89
n-Butylbenzene
Concen: 23.895 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055793.D
Acq: 24 May 2019 14:02

Instrument :
MSVOA_N
ClientSampleId :
P-3(4.5-5.0)DL

Tot Ion: 91 Resp: 324102
Ion Ratio Lower Upper
91 100
92 69.1 26.4 79.0
134 0.0 13.9 41.7#

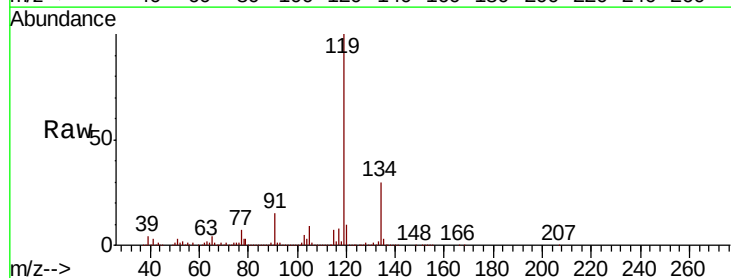


Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 92.00 (91.70 to 92.70): VN0
Ion 134.00 (133.70 to 134.70): V

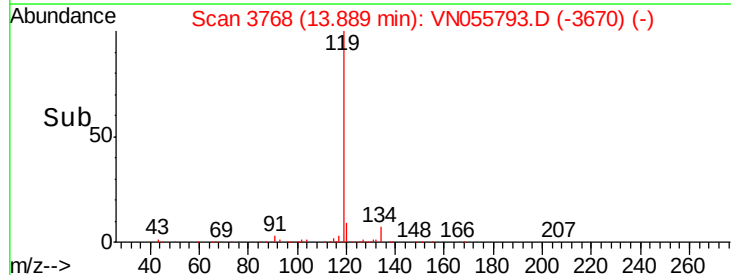
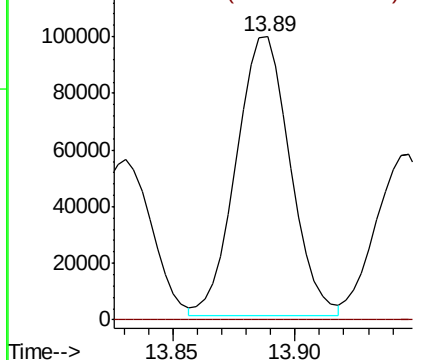


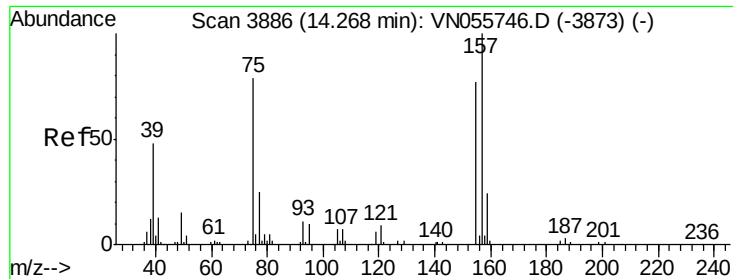
#90
Hexachloroethane
Concen: 44.867 ug/l
RT: 13.89 min Scan# 3768
Delta R.T. 0.02 min
Lab File: VN055793.D
Acq: 24 May 2019 14:02

Tgt Ion: 117 Resp: 151176
Ion Ratio Lower Upper
117 100
201 0.0 50.0 150.0#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.189 ug/l

RT: 14.29 min Scan# 3893

Delta R.T. 0.02 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

Instrument :

MSVOA_N

ClientSampleID :

P-3(4.5-5.0)DL

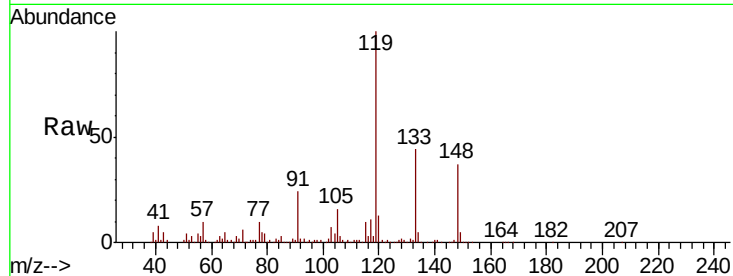
Tot Ion: 75 Resp: 1343

Ion Ratio Lower Upper

75 100

155 0.0 50.0 150.1#

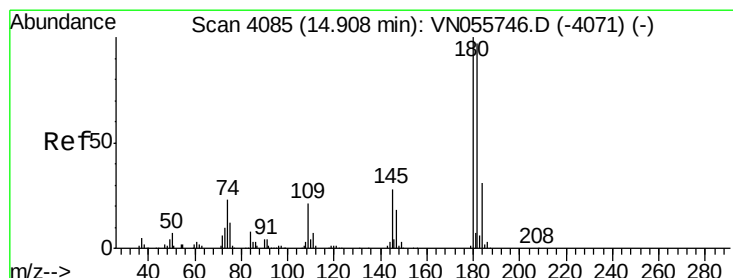
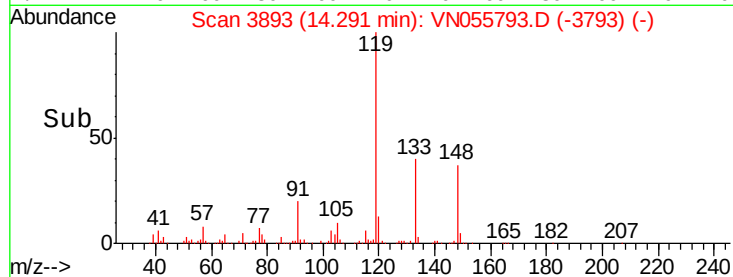
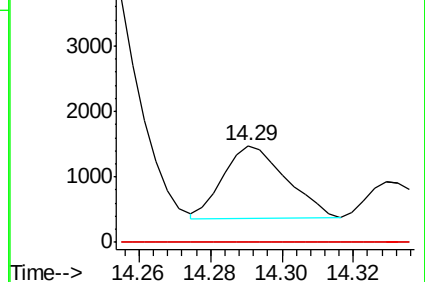
157 0.0 64.8 194.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 4.453 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

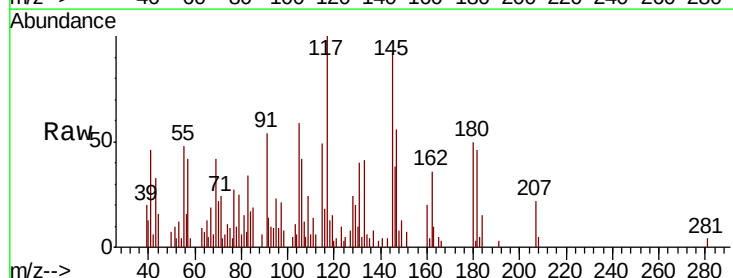
Tgt Ion:180 Resp: 4354

Ion Ratio Lower Upper

180 100

182 89.0 48.3 144.9

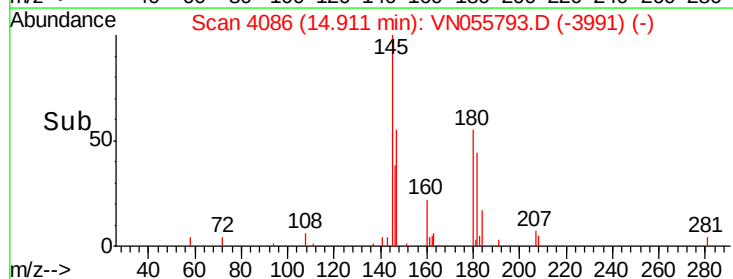
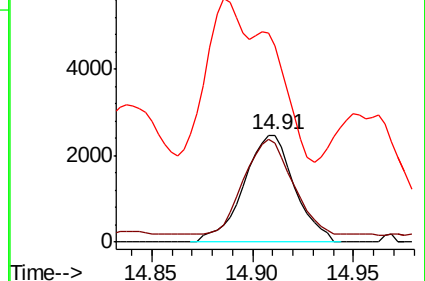
145 0.0 14.0 41.9#

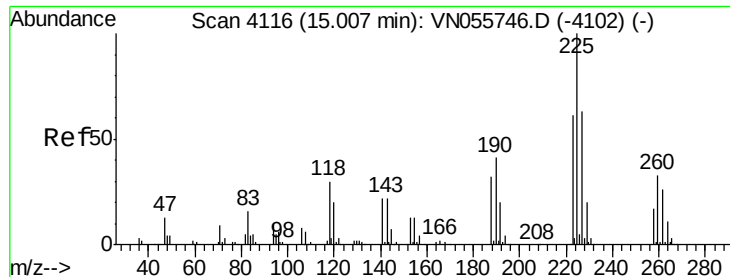


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

Instrument :

MSVOA_N

ClientSampleId :

P-3(4.5-5.0)DL

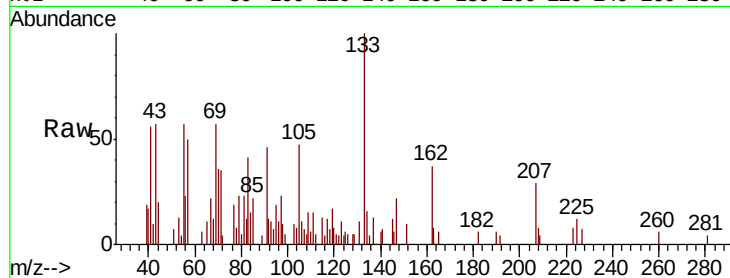
Tot Ion:225 Resp: 809

Ion Ratio Lower Upper

225 100

223 58.2 30.9 92.7

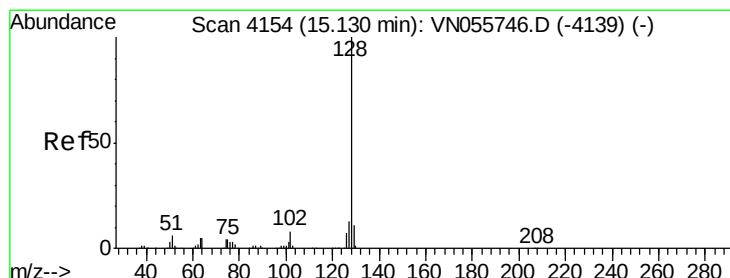
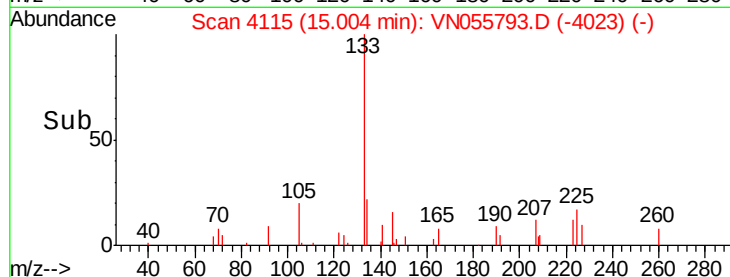
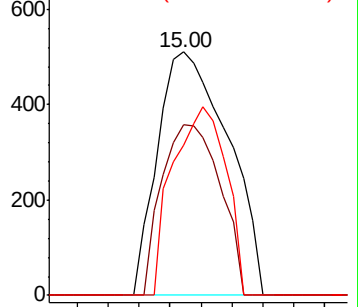
227 58.2 31.6 94.7



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 90.740 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN055793.D

Acq: 24 May 2019 14:02

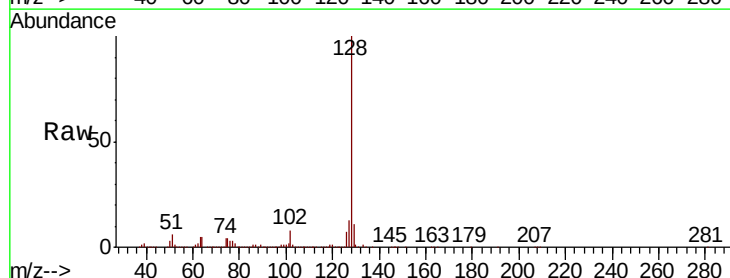
Tgt Ion:128 Resp: 1069979

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

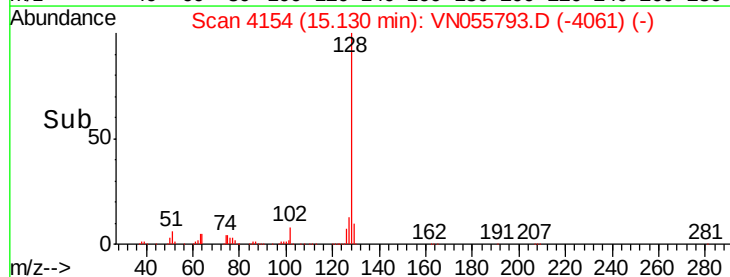
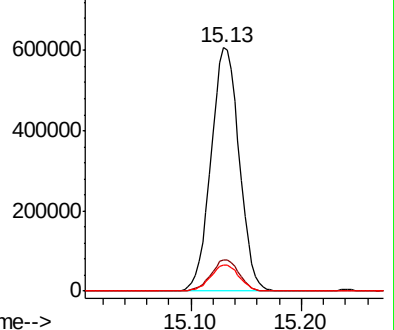
129 11.0 8.7 13.1

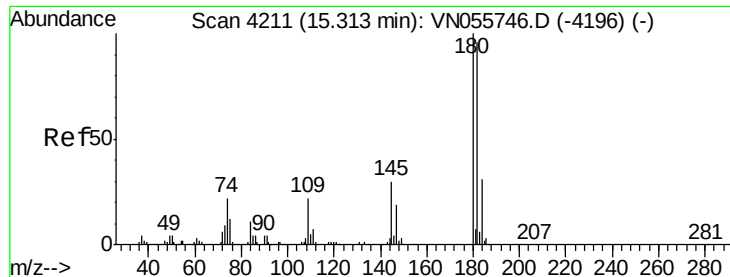


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.981 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN055793.D
 Acq: 24 May 2019 14:02

Instrument :
 MSVOA_N
 ClientSampleId :
 P-3(4.5-5.0)DL

Tot Ion:180 Resp: 4457
 Ion Ratio Lower Upper
 180 100
 182 102.0 47.9 143.7
 145 0.0 14.9 44.7#

