

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092419\
 Data File : VN058345.D
 Acq On : 24 Sep 2019 14:57
 Operator : JC/SP
 Sample : K4839-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

Quant Time: Sep 25 01:41:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N092419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 25 01:36:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	79054	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	464608	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	411161	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	209397	29.96	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.87%
60) 4-Bromofluorobenzene	12.41	95	210258	29.55	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.50%
63) Toluene-d8	10.08	98	584615	29.79	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.30%

Target Compounds

					Qvalue
4) Vinyl Chloride	2.17	62	135834	24.799	ug/l 93
6) Chloroethane	2.69	64	124668	38.513	ug/l 97
12) Methyl Acetate	4.31	43	4271	0.739	ug/l # 82
13) Acrolein	3.60	56	92	0.560	ug/l 93
14) Acrylonitrile	5.02	53	25485	10.678	ug/l # 40
15) Acetone	3.80	58	19825	29.958	ug/l 80
18) Methylene Chloride	4.53	84	319937	62.494	ug/l 92
21) 1,1-Dichloroethane	5.83	63	170425	17.632	ug/l 99
22) cis-1,2-Dichloroethene	6.81	96	737462	130.494	ug/l 88
23) tert-Butyl Alcohol	5.01	59	3148	3.573	ug/l # 79
24) Methyl tert-Butyl Ether	5.02	73	2254964	144.754	ug/l 99
25) Chloroform	7.36	83	504717	51.569	ug/l 100
33) Carbon Tetrachloride	7.76	117	639537	92.024	ug/l 99
36) 1,2-Dichloroethane	8.11	62	318271	37.765	ug/l 99
37) Trichloroethene	8.82	130	388720	72.172	ug/l 98
39) 1,2-Dichloropropane	9.11	63	146974	25.045	ug/l 96
40) Dibromomethane	9.20	93	121431	32.786	ug/l 98
45) 1,4-Dioxane	9.20	88	418	4.048	ug/l # 42
47) n-amyl Acetate	11.96	43	2684	0.252	ug/l 96
48) t-1,3-Dichloropropene	10.38	75	126251	15.783	ug/l 99
49) cis-1,3-Dichloropropene	9.83	75	735135	82.540	ug/l 100
50) 1,1,2-Trichloroethane	10.56	97	185407	35.819	ug/l 96
51) Ethyl methacrylate	10.09	69	2102	0.257	ug/l 80
52) 1,3-Dichloropropane	10.37	76	4436	0.483	ug/l 88
53) Dibromochloromethane	10.90	129	1085	0.209	ug/l 91
54) 1,2-Dibromoethane	11.00	107	184766	34.978	ug/l 99
56) Bromoform	12.13	173	285279	86.974	ug/l 100
59) 2-Hexanone	10.75	43	968544	198.864	ug/l 99
61) Tetrachloroethene	10.63	164	382704	88.845	ug/l 99
62) Toluene	10.15	91	707182	31.405	ug/l 100
64) Chlorobenzene	11.44	112	1146805	82.874	ug/l 100
65) 1,1,1,2-Tetrachloroethane	11.51	131	208644	43.010	ug/l 99
66) Ethyl Benzene	11.51	91	2868144	116.809	ug/l 93
67) m/p-Xylenes	11.62	106	1074954	114.031	ug/l 98
68) o-Xylene	11.95	106	542304	59.162	ug/l 97
69) Styrene	11.97	104	1785745	116.497	ug/l 96
70) Isopropylbenzene	12.25	105	5477	0.231	ug/l 87

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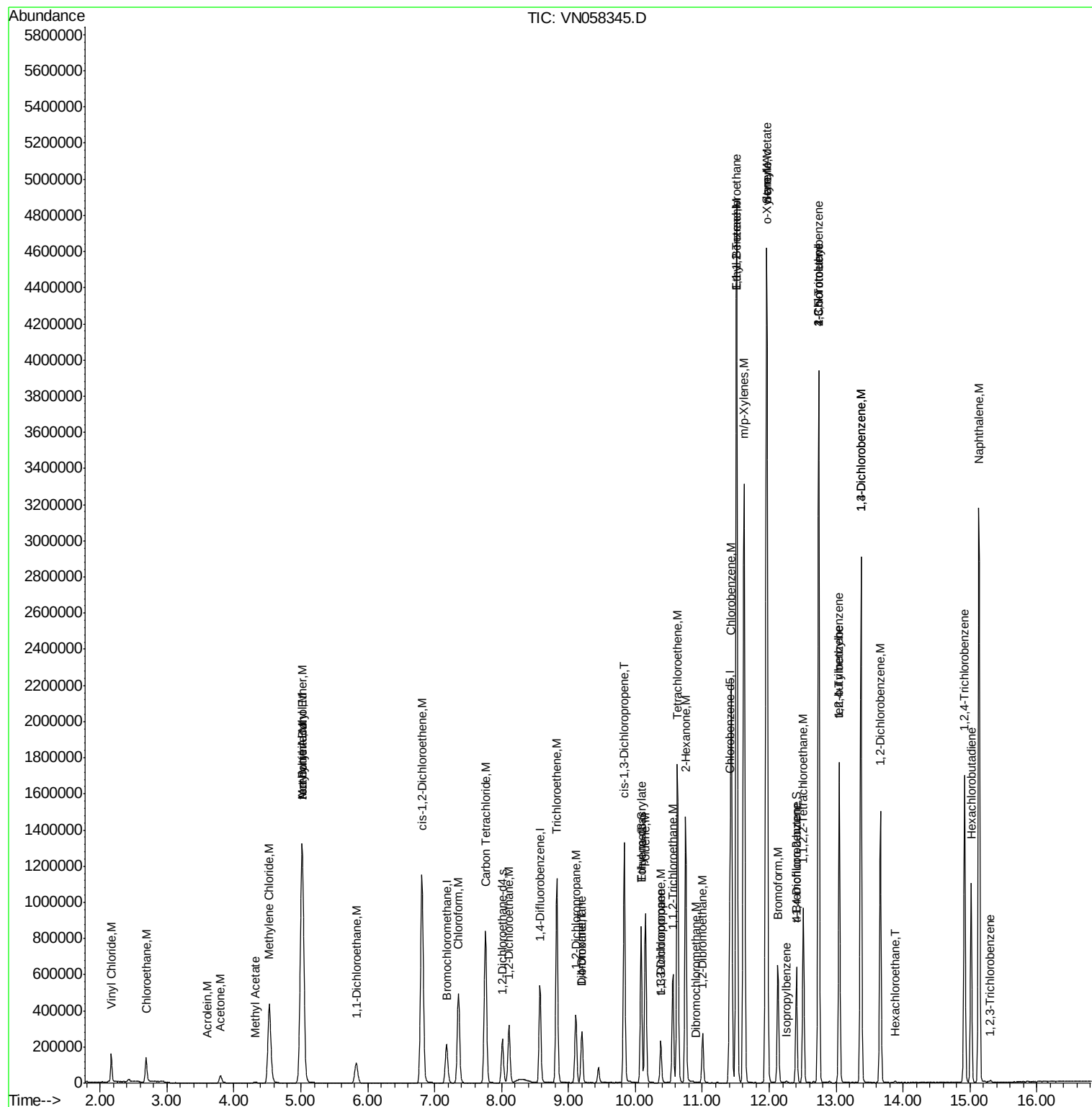
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 1,1,2,2-Tetrachloroethane	12.51	83	491234	65.066	ug/l	99
75) 2-Chlorotoluene	12.74	91	242158	14.136	ug/l	42
76) 1,3,5-Trimethylbenzene	12.74	105	2133771	104.321	ug/l	98
77) t-1,4-Dichloro-2-butene	12.41	75	117188	55.331	ug/l #	3
78) 4-Chlorotoluene	12.74	91	242158	13.793	ug/l	43
79) tert-butylbenzene	13.05	119	113740	6.423	ug/l	68
80) 1,2,4-Trimethylbenzene	13.05	105	962369	47.137	ug/l	99
83) 1,3-Dichlorobenzene	13.37	146	1148948	108.235	ug/l	98
84) 1,4-Dichlorobenzene	13.37	146	1148948	108.750	ug/l	98
86) Hexachloroethane	13.88	117	1739	0.515	ug/l	60
87) 1,2-Dichlorobenzene	13.66	146	581834	56.132	ug/l	99
89) 1,2,4-Trichlorobenzene	14.92	180	501021	73.985	ug/l	99
90) Hexachlorobutadiene	15.02	225	191341	58.395	ug/l	98
91) Naphthalene	15.13	128	2489806	133.881	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	3080	0.474	ug/l	93

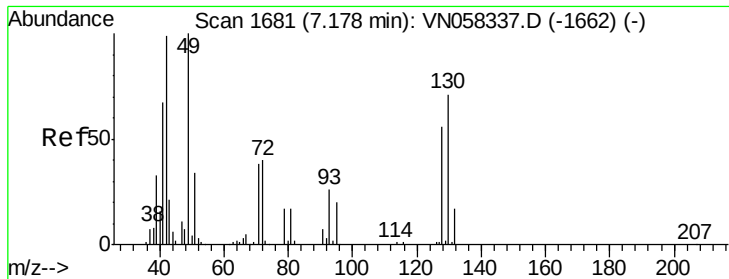
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VN058345.D

Acq: 24 Sep 2019 14:57

Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WP

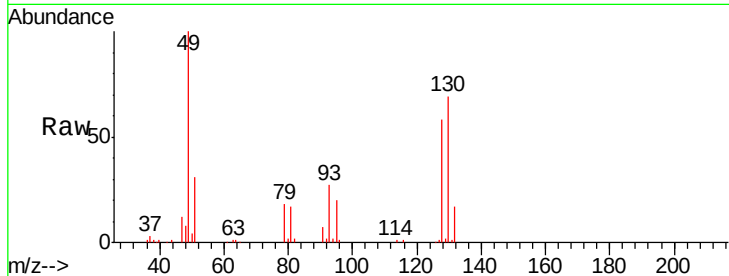
Tgt Ion:128 Resp: 79054

Ion Ratio Lower Upper

128 100

49 181.4 0.0 458.5

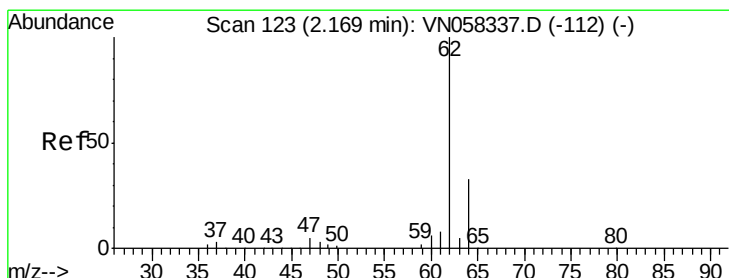
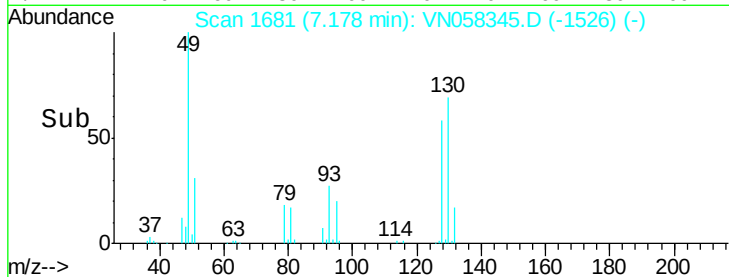
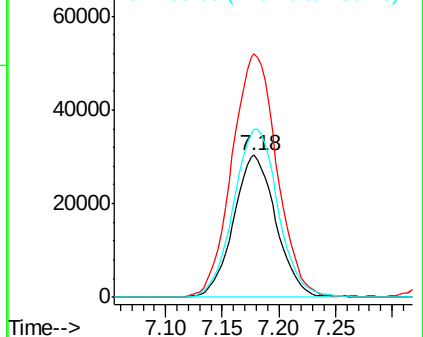
130 124.9 0.0 320.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#4

Vinyl Chloride

Concen: 24.799 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN058345.D

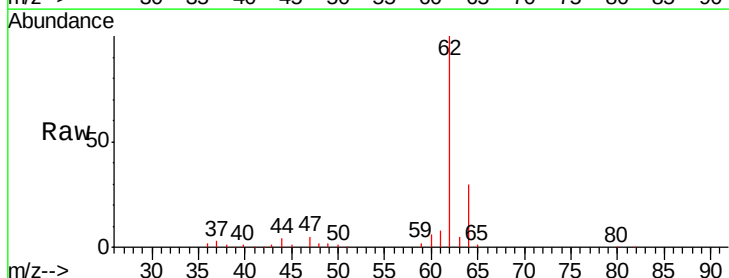
Acq: 24 Sep 2019 14:57

Tgt Ion: 62 Resp: 135834

Ion Ratio Lower Upper

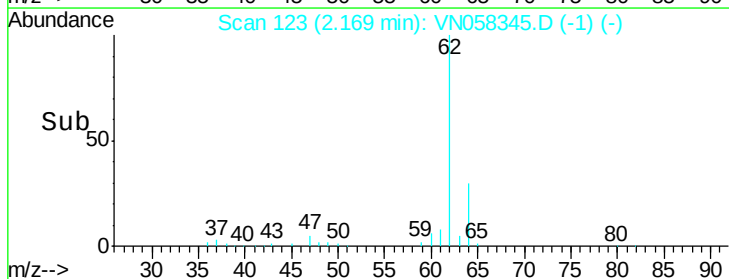
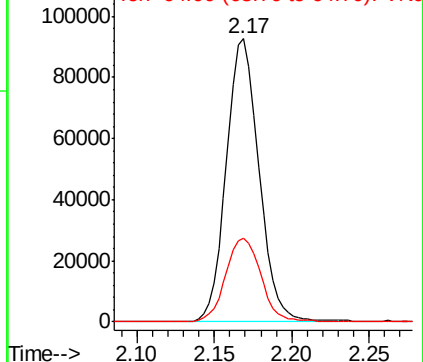
62 100

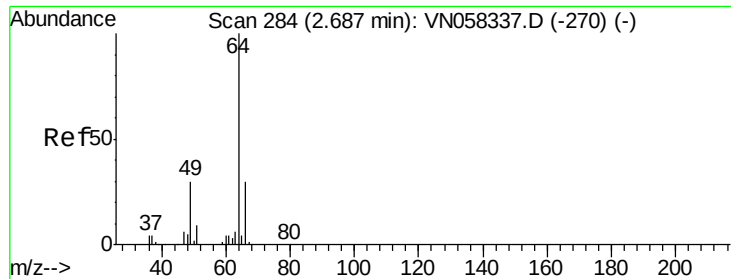
64 29.6 26.6 40.0



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#6

Chloroethane

Concen: 38.513 ug/l

RT: 2.69 min Scan# 285

Delta R.T. 0.00 min

Lab File: VN058345.D

Acq: 24 Sep 2019 14:57

Instrument :

MSVOA_N

ClientSampled :

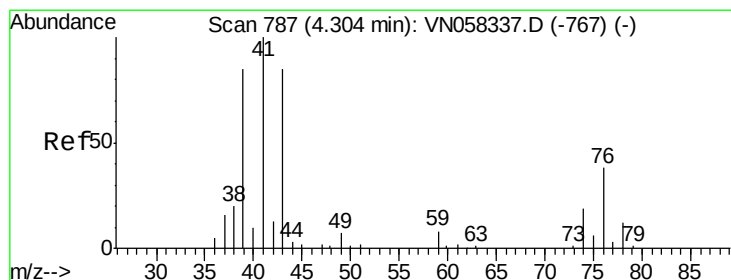
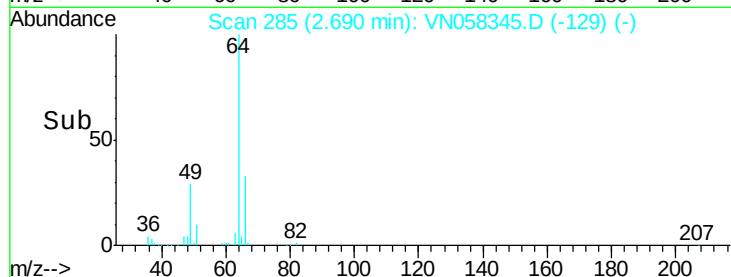
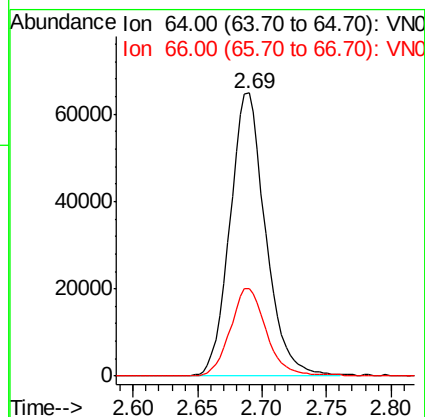
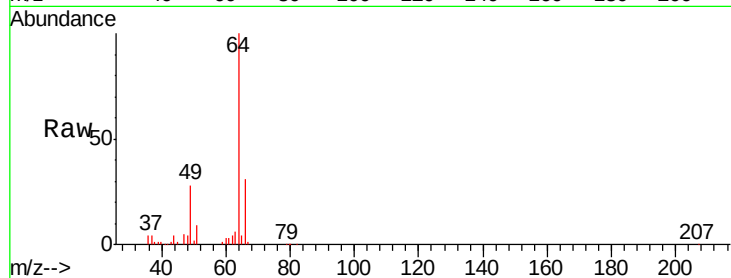
PT-VOA-WP

Tgt Ion: 64 Resp: 124668

Ion Ratio Lower Upper

64 100

66 31.1 23.8 35.6



#12

Methyl Acetate

Concen: 0.739 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.01 min

Lab File: VN058345.D

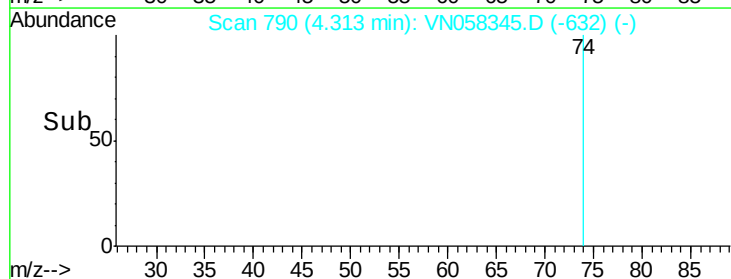
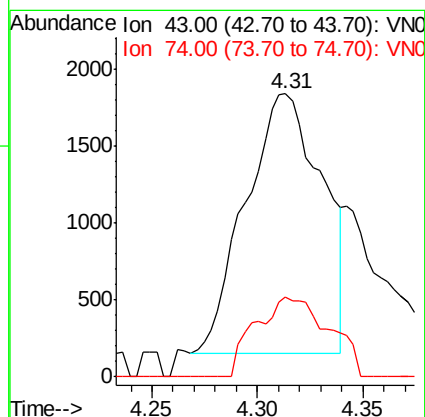
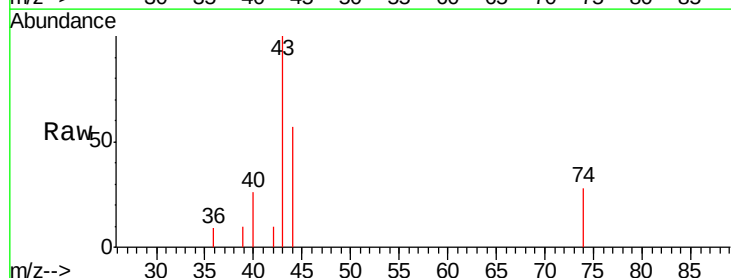
Acq: 24 Sep 2019 14:57

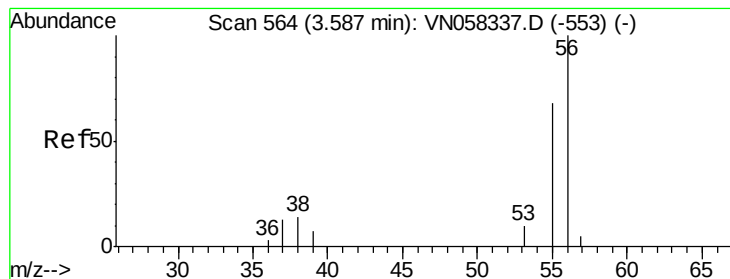
Tgt Ion: 43 Resp: 4271

Ion Ratio Lower Upper

43 100

74 31.0 17.8 26.6#





#13

Acrolein

Concen: 0.560 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.01 min

Lab File: VN058345.D

Acq: 24 Sep 2019 14:57

Instrument :

MSVOA_N

ClientSampleId :

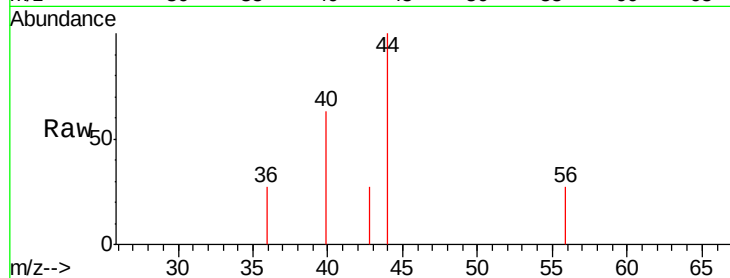
PT-VOA-WP

Tgt Ion: 56 Resp: 92

Ion Ratio Lower Upper

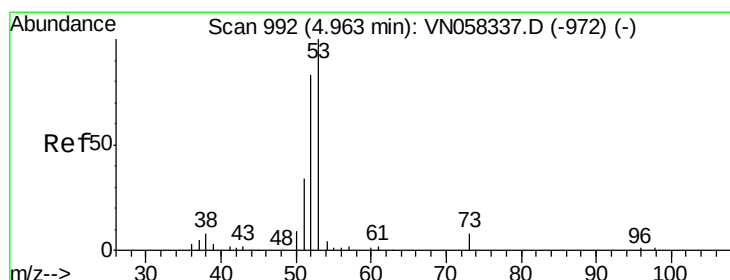
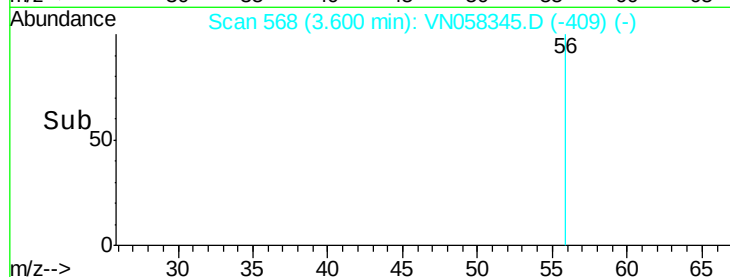
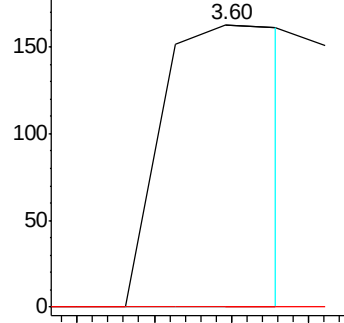
56 100

55 67.4 58.4 87.6



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 10.678 ug/l

RT: 5.02 min Scan# 1011

Delta R.T. 0.06 min

Lab File: VN058345.D

Acq: 24 Sep 2019 14:57

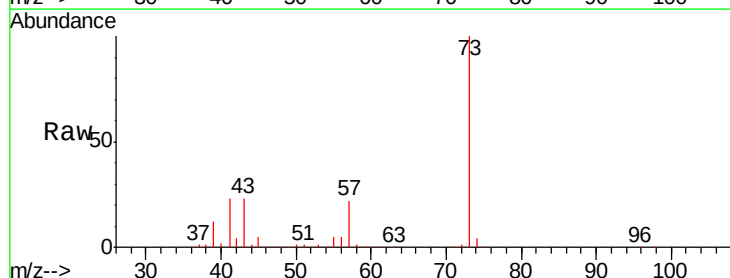
Tgt Ion: 53 Resp: 25485

Ion Ratio Lower Upper

53 100

52 6.1 41.3 123.7#

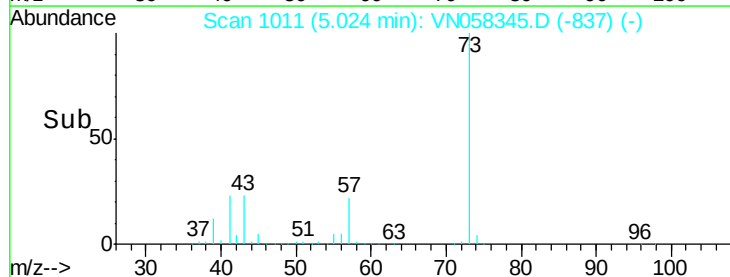
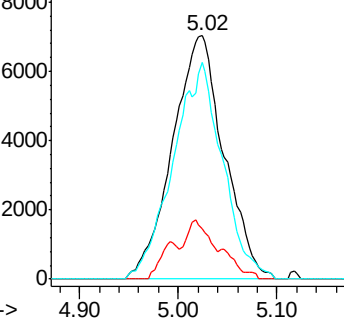
51 37.7 18.3 54.8

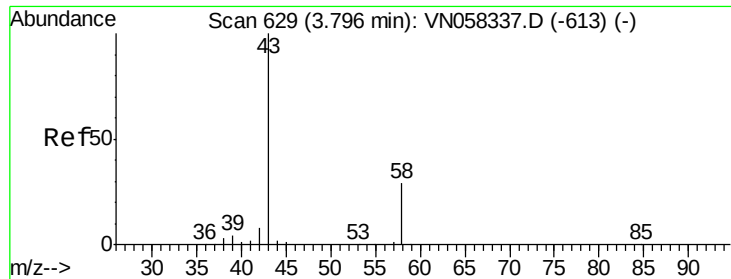


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 29.958 ug/l

RT: 3.80 min Scan# 629

Delta R.T. -0.00 min

Lab File: VN058345.D

Acq: 24 Sep 2019 14:57

Instrument :

MSVOA_N

ClientSampled :

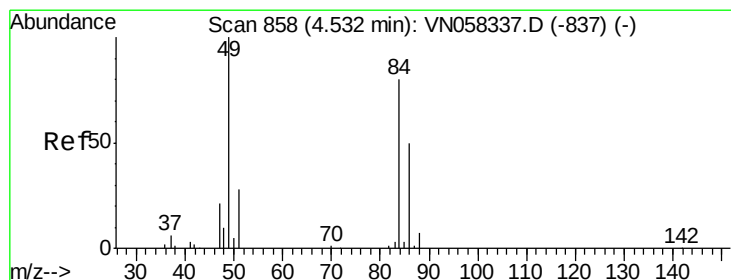
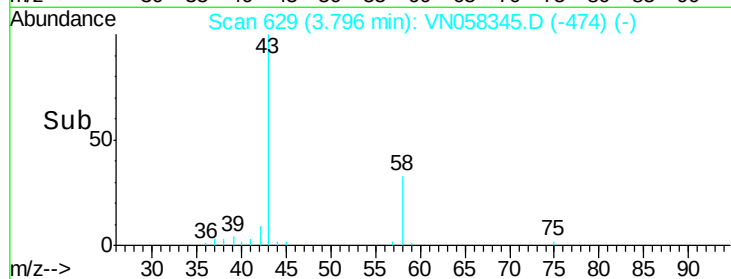
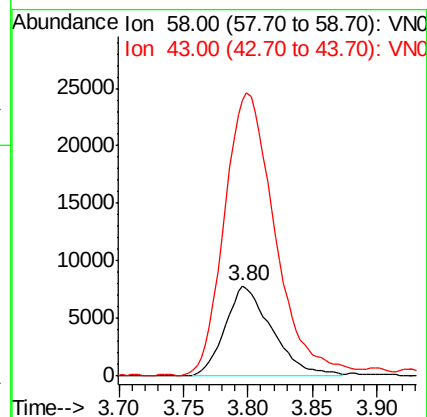
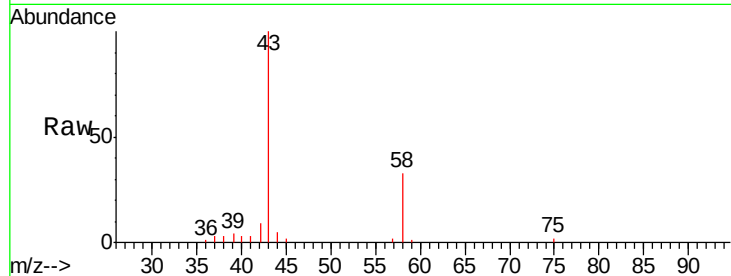
PT-VOA-WP

Tgt Ion: 58 Resp: 19825

Ion Ratio Lower Upper

58 100

43 298.8 272.6 409.0



#18

Methylene Chloride

Concen: 62.494 ug/l

RT: 4.53 min Scan# 857

Delta R.T. -0.00 min

Lab File: VN058345.D

Acq: 24 Sep 2019 14:57

Tgt Ion: 84 Resp: 319937

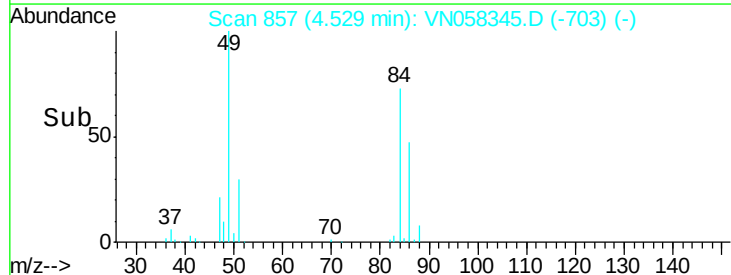
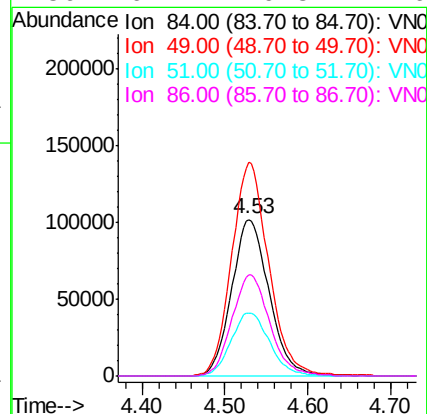
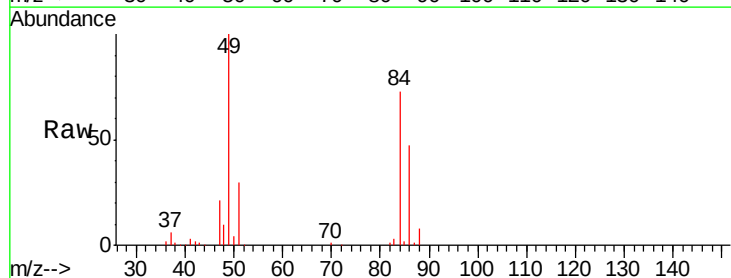
Ion Ratio Lower Upper

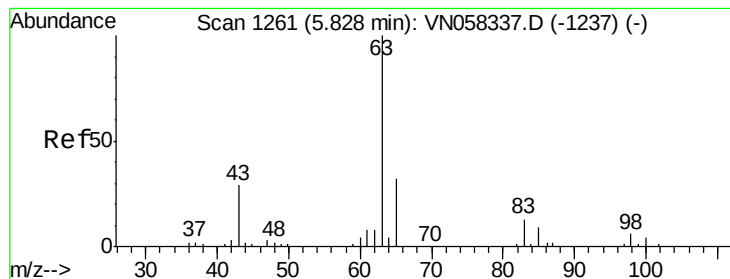
84 100

49 135.9 99.8 149.6

51 40.1 28.3 42.5

86 64.4 49.8 74.6





#21

1,1-Dichloroethane

Concen: 17.632 ug/l

RT: 5.83 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VN058345.D

Acq: 24 Sep 2019 14:57

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MSVOA_N

ClientSampleId :

PT-VOA-WP

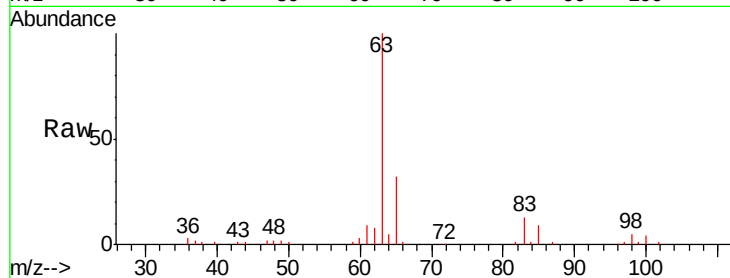
Tgt Ion: 63 Resp: 170425

Ion Ratio Lower Upper

63 100

98 5.4 3.0 9.2

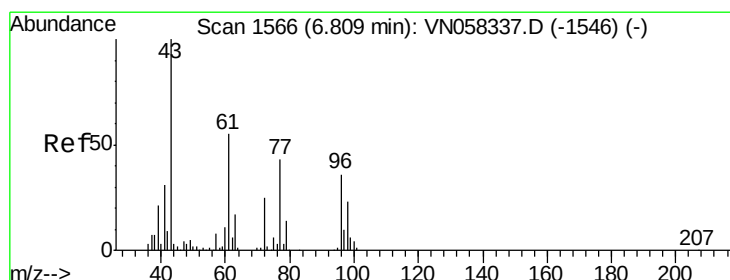
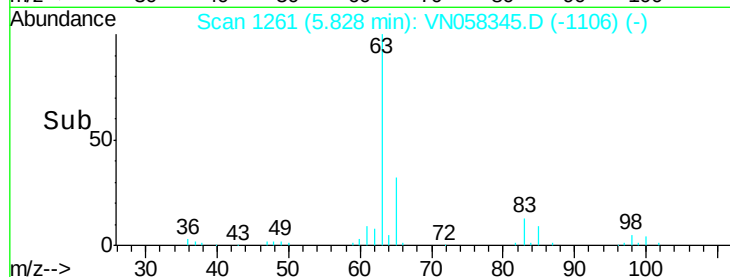
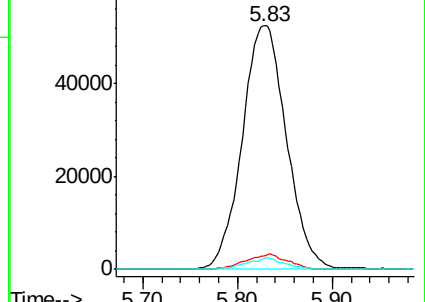
100 4.4 2.1 6.5



Abundance Ion 63.00 (62.70 to 63.70): VN058337.D (-1237) (-)

Ion 98.00 (97.70 to 98.70): VN058337.D (-1237) (-)

Ion 100.00 (99.70 to 100.70): VN058337.D (-1237) (-)



#22

cis-1,2-Dichloroethene

Concen: 130.494 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN058345.D

Acq: 24 Sep 2019 14:57

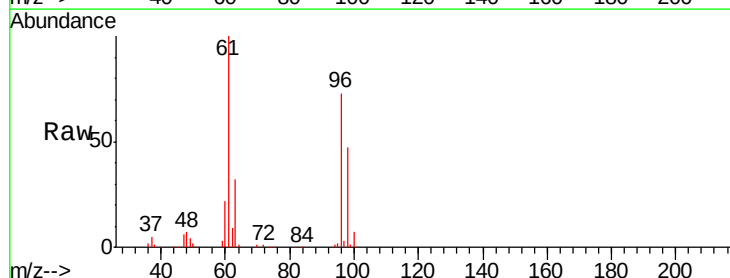
Tgt Ion: 96 Resp: 737462

Ion Ratio Lower Upper

96 100

61 139.1 128.2 192.2

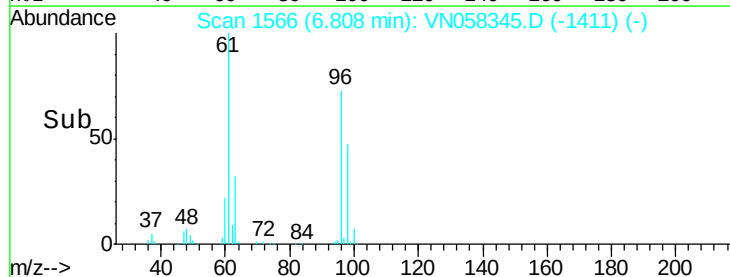
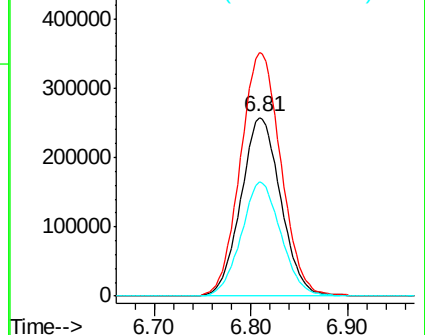
98 63.8 50.6 76.0

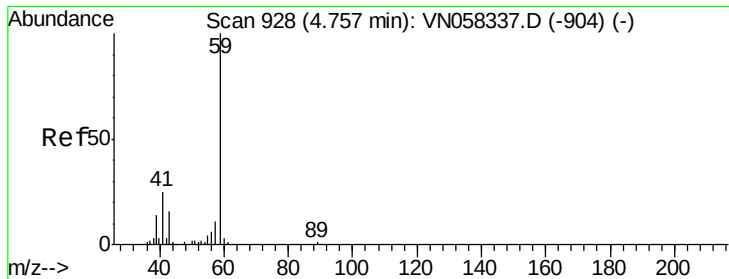


Abundance Ion 96.00 (95.70 to 96.70): VN058337.D (-1546) (-)

Ion 61.00 (60.70 to 61.70): VN058337.D (-1546) (-)

Ion 98.00 (97.70 to 98.70): VN058337.D (-1546) (-)





#23

tert-Butyl Alcohol

Concen: 3.573 ug/l

RT: 5.01 min Scan# 1006

Delta R.T. 0.25 min

Lab File: VN058345.D

Acq: 24 Sep 2019 14:57

Instrument :

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ClientSampleId :

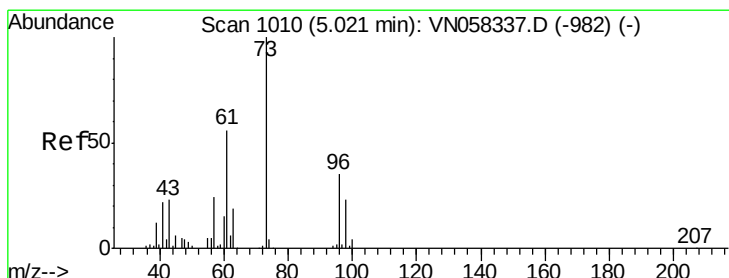
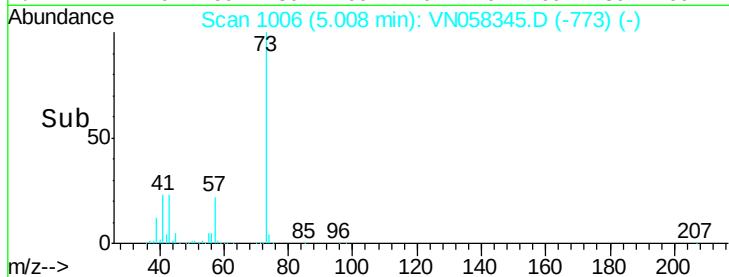
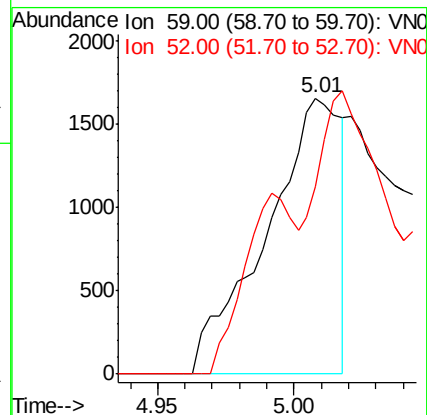
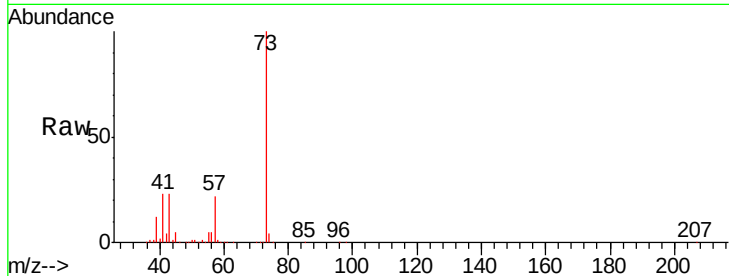
PT-VOA-WP

Tgt Ion: 59 Resp: 3148

Ion Ratio Lower Upper

59 100

52 49.8 0.1 0.1#



#24

Methyl tert-Butyl Ether

Concen: 144.754 ug/l

RT: 5.02 min Scan# 1010

Delta R.T. -0.00 min

Lab File: VN058345.D

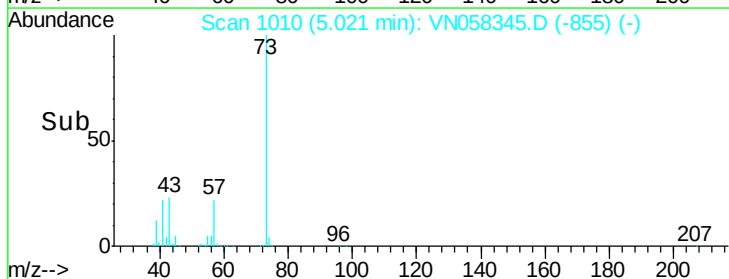
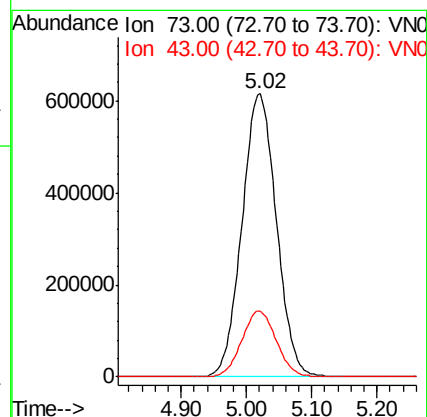
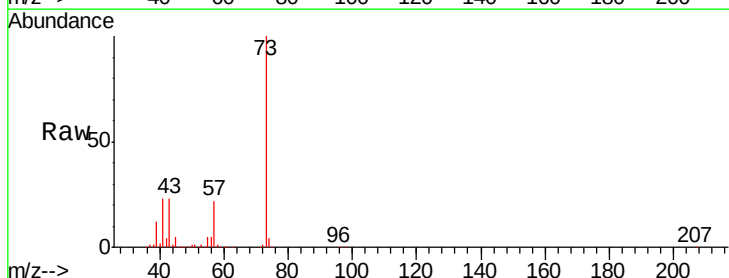
Acq: 24 Sep 2019 14:57

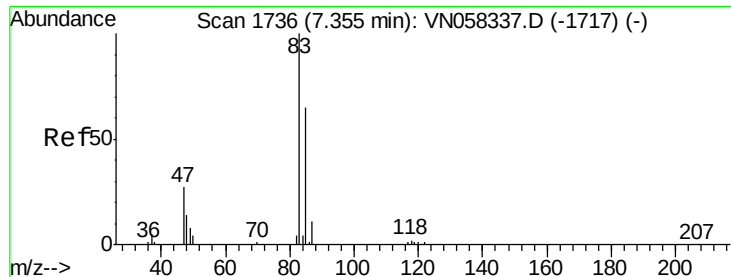
Tgt Ion: 73 Resp: 2254964

Ion Ratio Lower Upper

73 100

43 23.5 18.4 27.6





#25

Chloroform

Concen: 51.569 ug/l

RT: 7.36 min Scan# 1736

Delta R.T. -0.00 min

Lab File: VN058345.D

Acq: 24 Sep 2019 14:57

Instrument :

MSVOA_N

ClientSampleId :

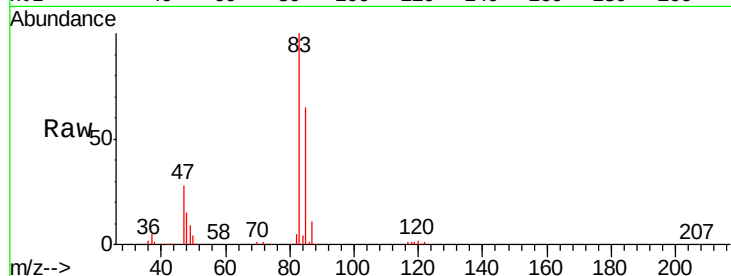
PT-VOA-WP

Tgt Ion: 83 Resp: 504717

Ion Ratio Lower Upper

83 100

85 64.8 51.8 77.6



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

7.36

200000

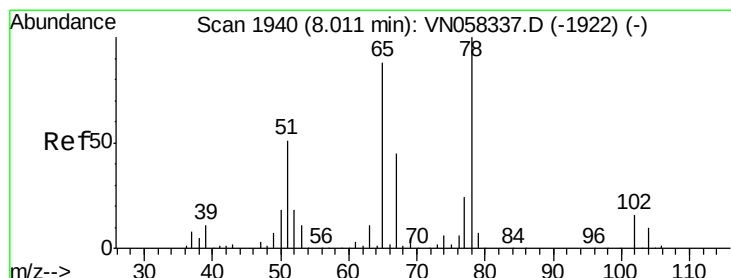
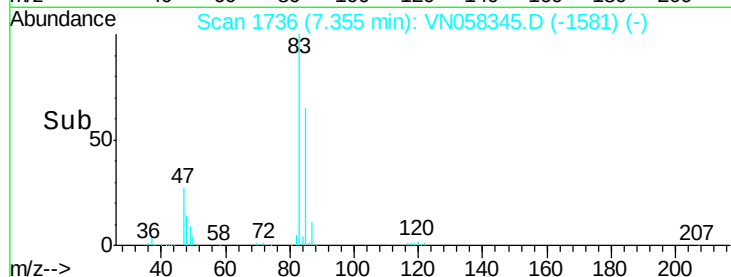
150000

100000

50000

0

Time-->



#27

1,2-Dichloroethane-d4

Concen: 29.964 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058345.D

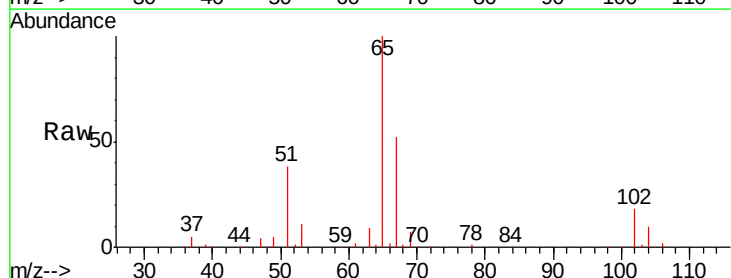
Acq: 24 Sep 2019 14:57

Tgt Ion: 65 Resp: 209397

Ion Ratio Lower Upper

65 100

67 52.2 40.4 60.6



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

8.01

100000

80000

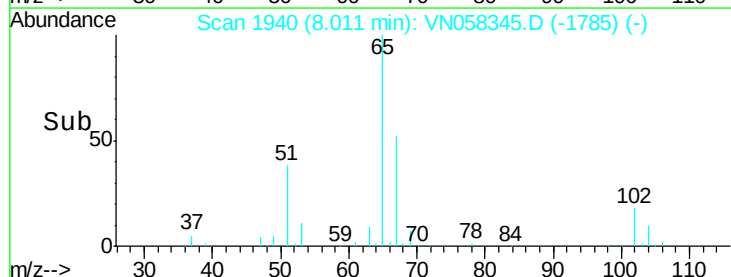
60000

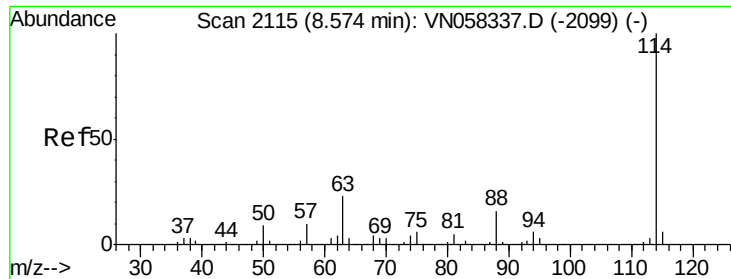
40000

20000

0

Time-->

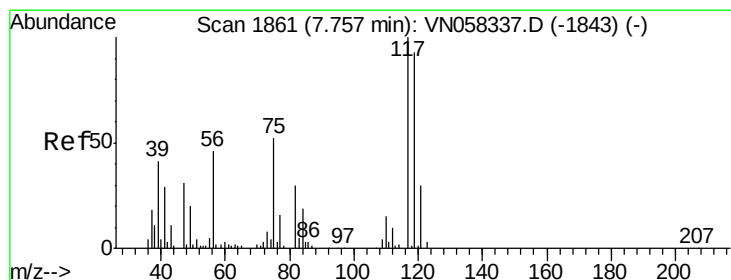
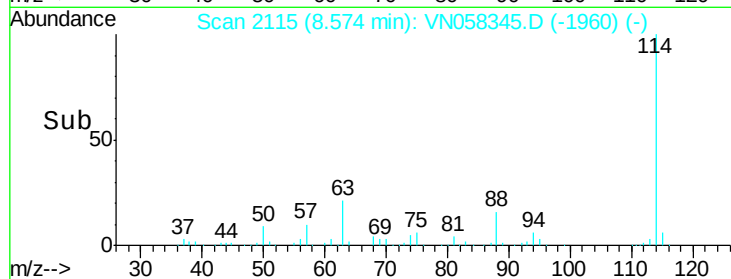
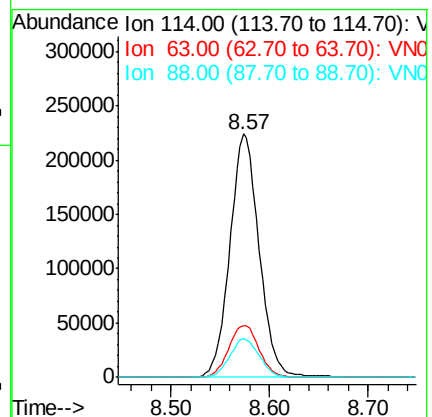
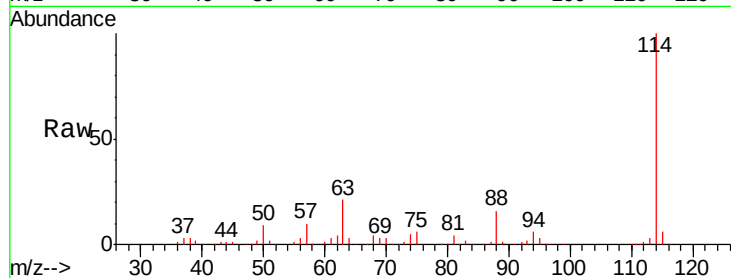




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058345.D
 Acq: 24 Sep 2019 14:57

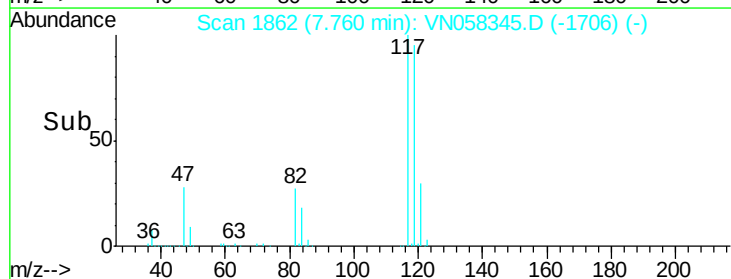
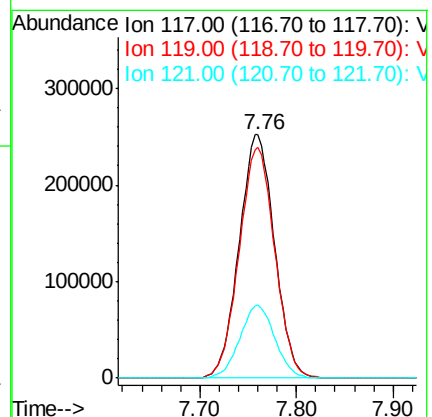
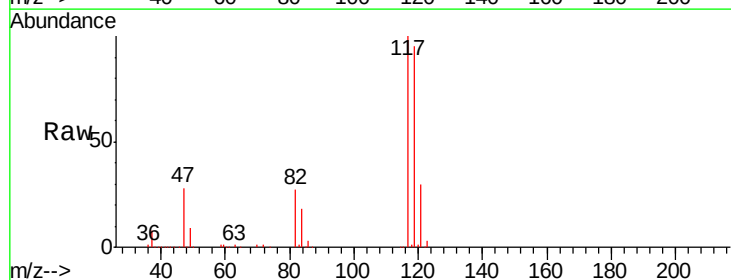
Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

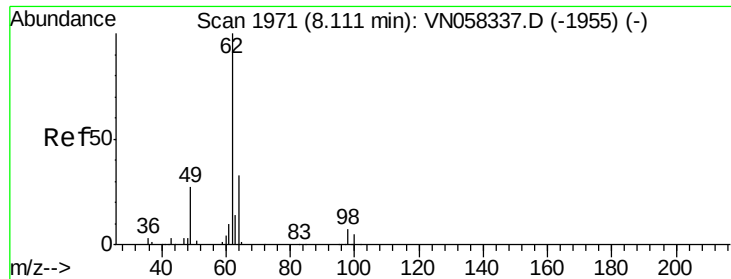
Tgt Ion:114 Resp: 464608
 Ion Ratio Lower Upper
 114 100
 63 22.2 17.8 26.8
 88 16.0 12.7 19.1



#33
 Carbon Tetrachloride
 Concen: 92.024 ug/l
 RT: 7.76 min Scan# 1862
 Delta R.T. 0.00 min
 Lab File: VN058345.D
 Acq: 24 Sep 2019 14:57

Tgt Ion:117 Resp: 639537
 Ion Ratio Lower Upper
 117 100
 119 94.6 74.2 111.4
 121 29.9 23.9 35.9

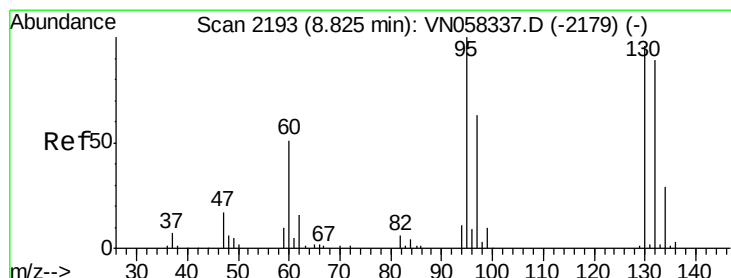
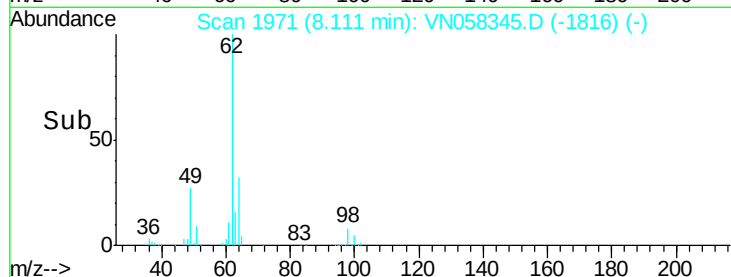
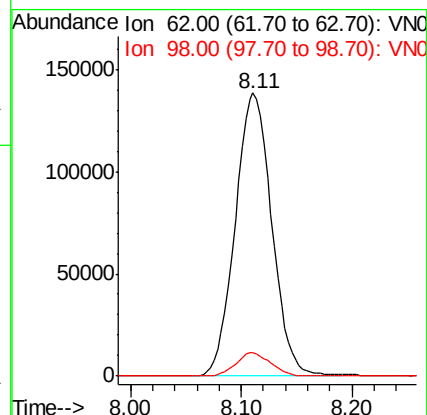
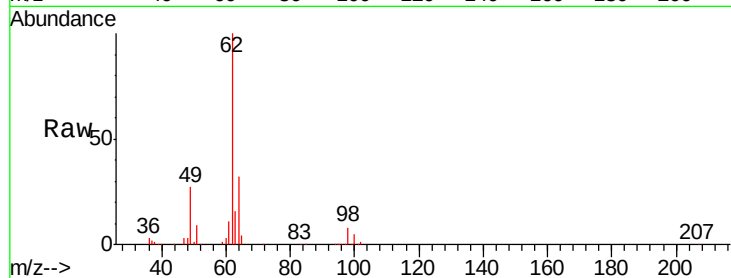




#36
 1,2-Dichloroethane
 Concen: 37.765 ug/l
 RT: 8.11 min Scan# 1971
 Delta R.T. -0.00 min
 Lab File: VN058345.D
 Acq: 24 Sep 2019 14:57

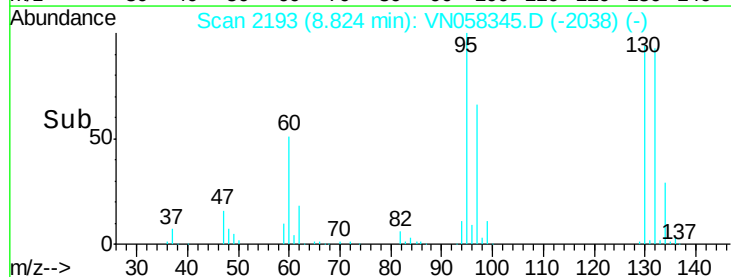
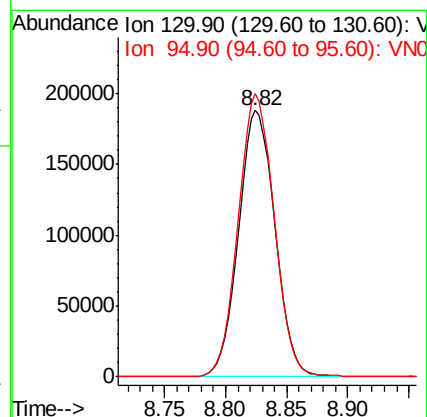
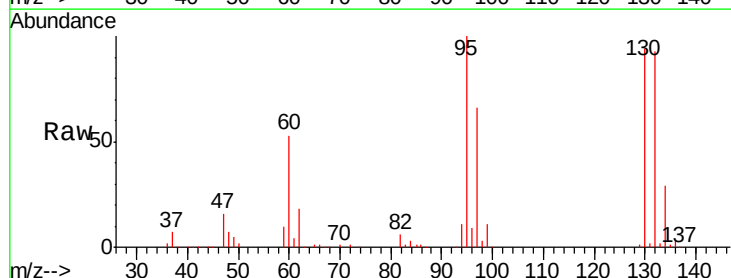
Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

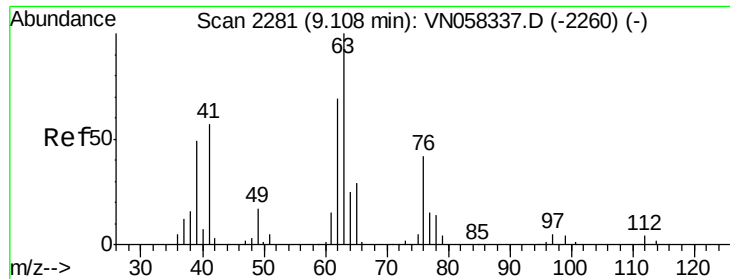
Tgt Ion: 62 Resp: 318271
 Ion Ratio Lower Upper
 62 100
 98 7.9 6.0 9.0



#37
 Trichloroethene
 Concen: 72.172 ug/l
 RT: 8.82 min Scan# 2193
 Delta R.T. -0.00 min
 Lab File: VN058345.D
 Acq: 24 Sep 2019 14:57

Tgt Ion: 130 Resp: 388720
 Ion Ratio Lower Upper
 130 100
 95 106.3 83.3 124.9

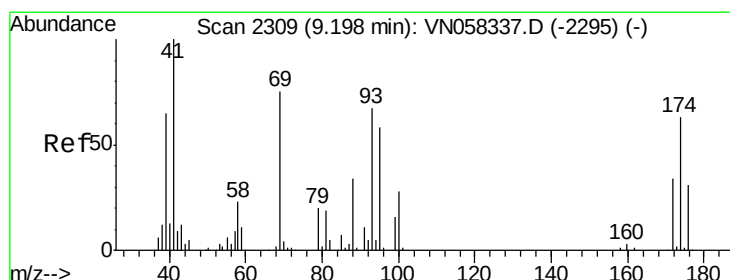
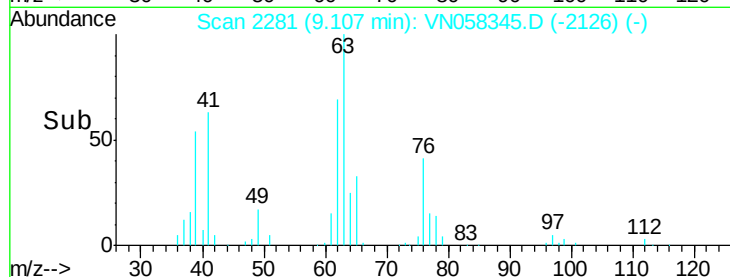
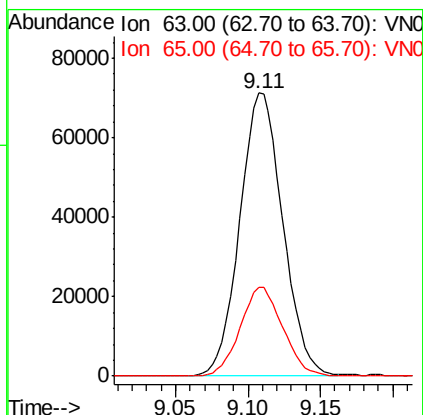
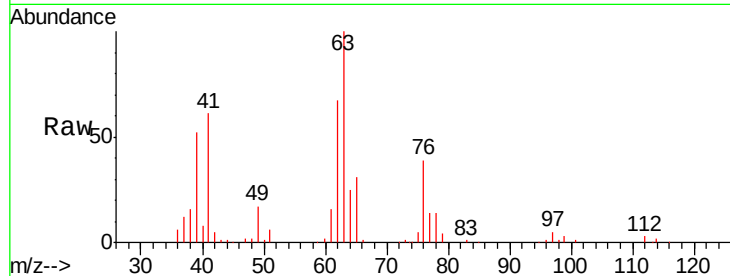




#39
 1,2-Dichloropropane
 Concen: 25.045 ug/l
 RT: 9.11 min Scan# 2281
 Delta R.T. -0.00 min
 Lab File: VN058345.D
 Acq: 24 Sep 2019 14:57

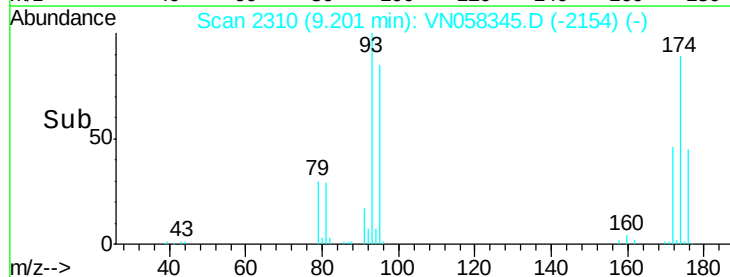
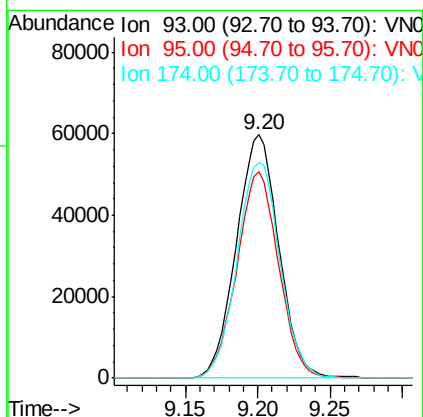
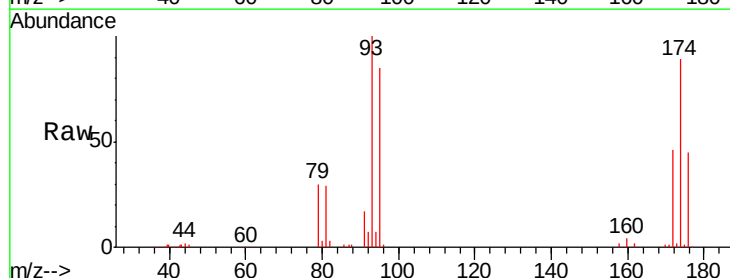
Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

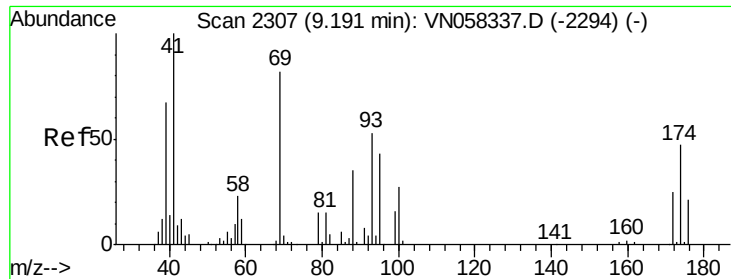
Tgt Ion: 63 Resp: 146974
 Ion Ratio Lower Upper
 63 100
 65 31.5 23.4 35.0



#40
 Dibromomethane
 Concen: 32.786 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN058345.D
 Acq: 24 Sep 2019 14:57

Tgt Ion: 93 Resp: 121431
 Ion Ratio Lower Upper
 93 100
 95 83.6 0.0 166.8
 174 89.6 0.0 187.2

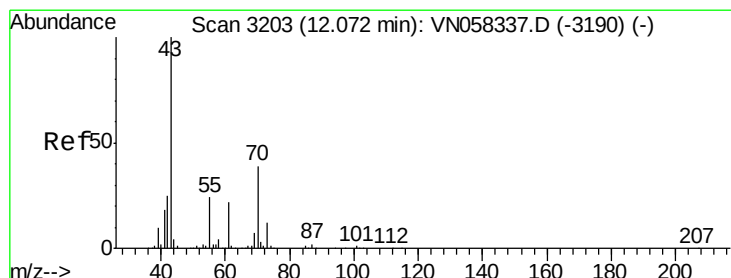
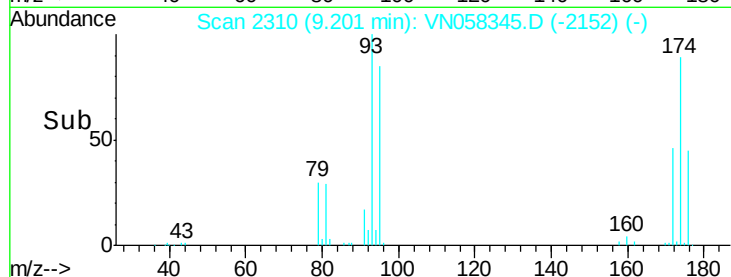
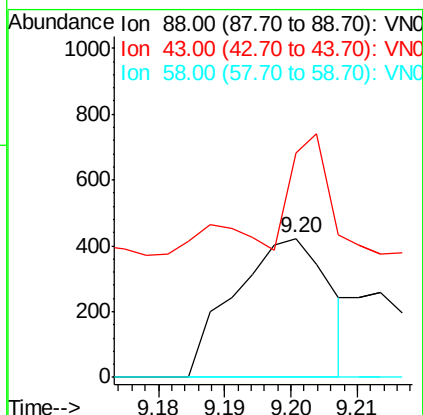
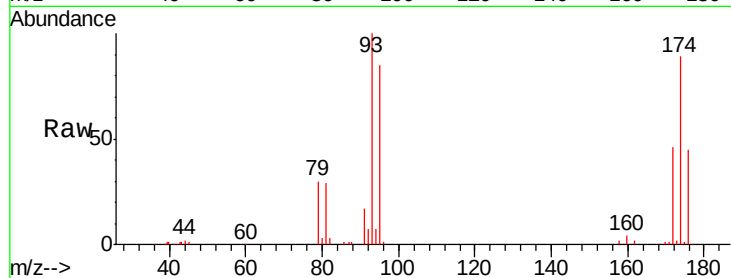




#45
1,4-Dioxane
Concen: 4.048 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.01 min
Lab File: VN058345.D
Acq: 24 Sep 2019 14:57

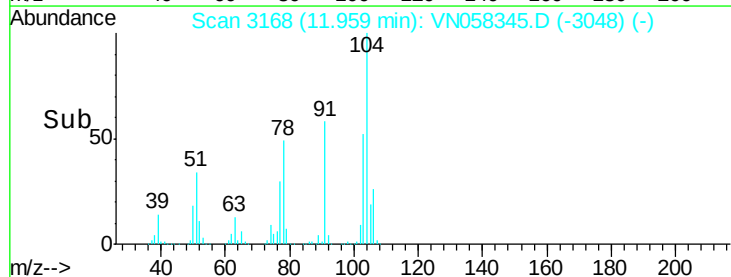
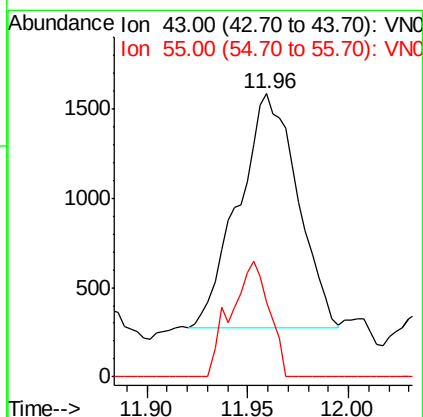
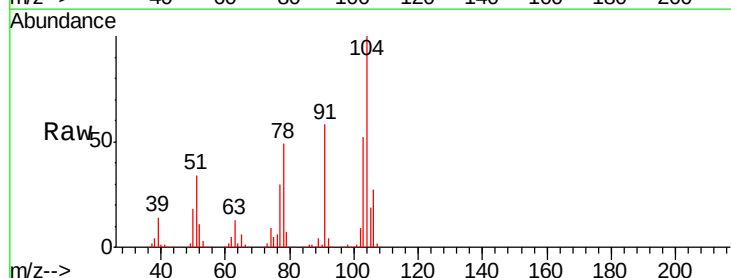
Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WP

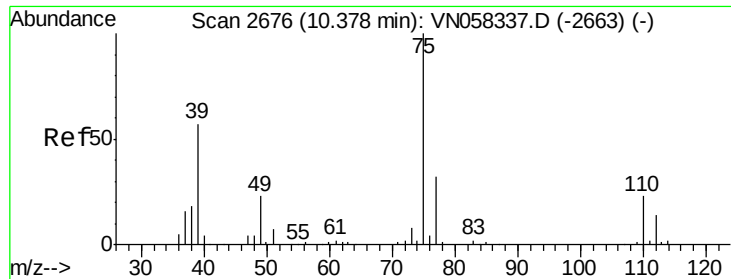
Tgt Ion: 88 Resp: 418
Ion Ratio Lower Upper
88 100
43 35.2 27.2 40.8
58 0.0 55.4 83.0#



#47
n-amyl Acetate
Concen: 0.252 ug/l
RT: 11.96 min Scan# 3168
Delta R.T. -0.11 min
Lab File: VN058345.D
Acq: 24 Sep 2019 14:57

Tgt Ion: 43 Resp: 2684
Ion Ratio Lower Upper
43 100
55 25.9 19.0 28.4

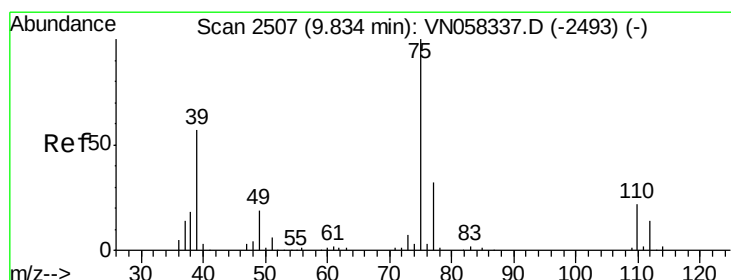
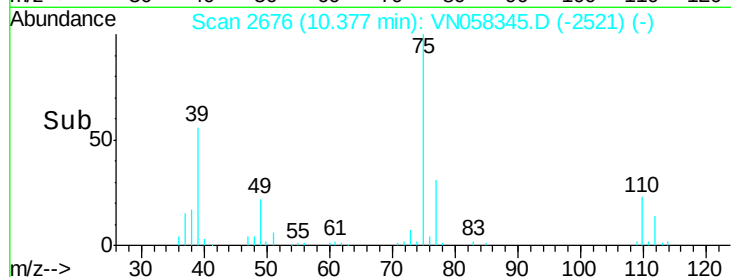
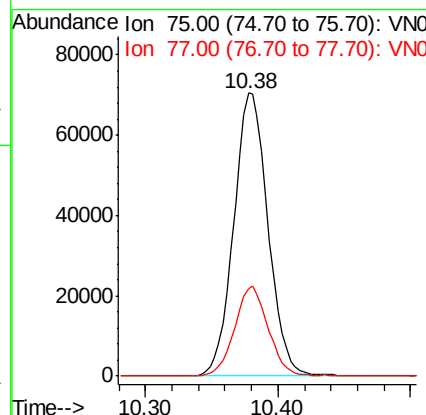
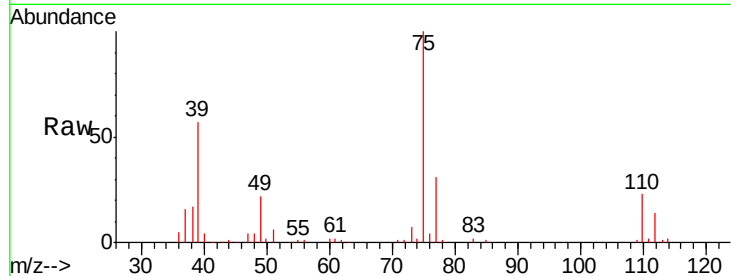




#48
 t-1,3-Dichloropropene
 Concen: 15.783 ug/l
 RT: 10.38 min Scan# 2676
 Delta R.T. -0.00 min
 Lab File: VN058345.D
 Acq: 24 Sep 2019 14:57

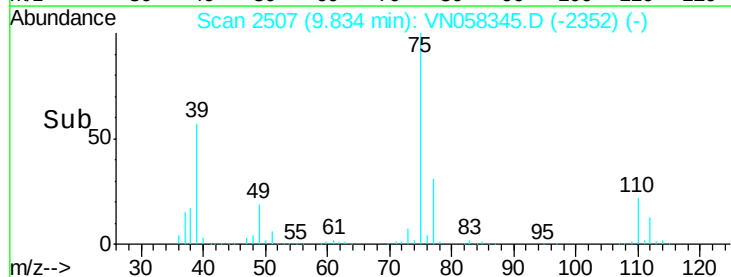
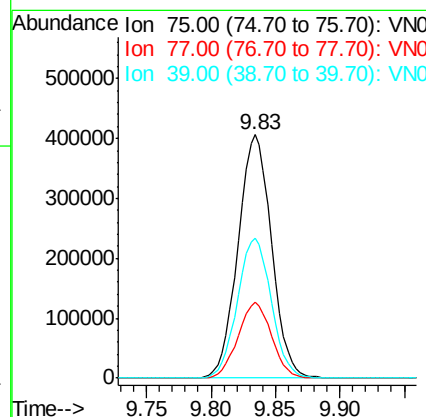
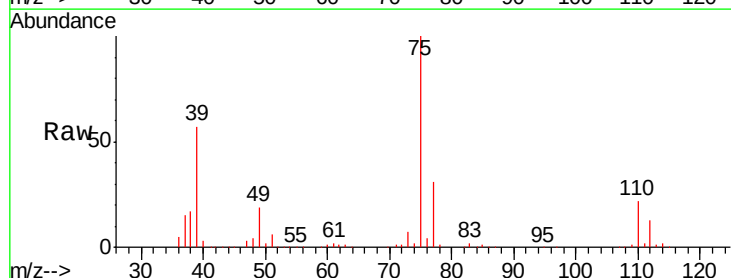
Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

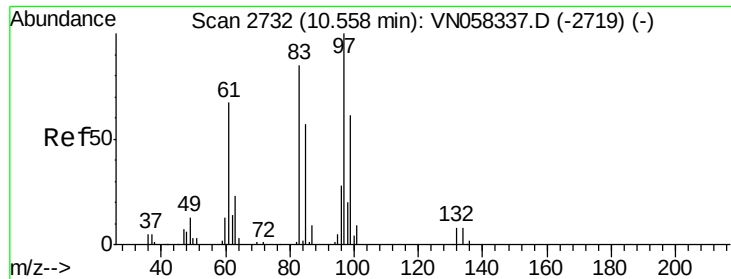
Tgt Ion: 75 Resp: 126251
 Ion Ratio Lower Upper
 75 100
 77 31.1 25.4 38.0



#49
 cis-1,3-Dichloropropene
 Concen: 82.540 ug/l
 RT: 9.83 min Scan# 2507
 Delta R.T. -0.00 min
 Lab File: VN058345.D
 Acq: 24 Sep 2019 14:57

Tgt Ion: 75 Resp: 735135
 Ion Ratio Lower Upper
 75 100
 77 31.0 25.2 37.8
 39 57.2 45.8 68.6

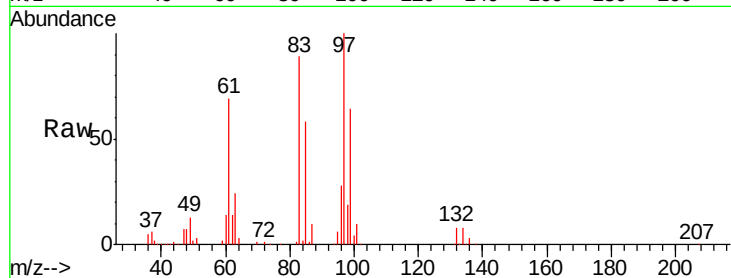




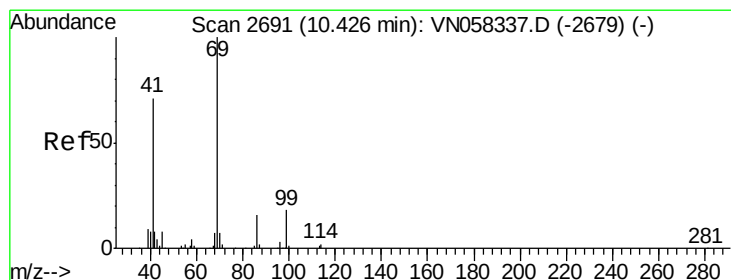
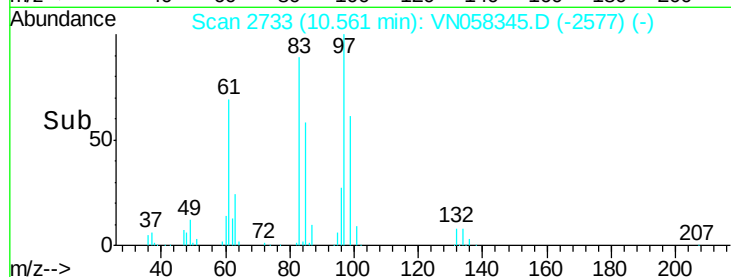
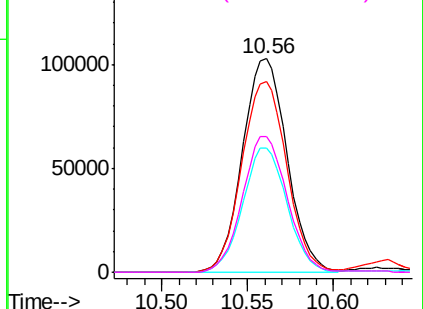
#50
 1,1,2-Trichloroethane
 Concen: 35.819 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN058345.D
 Acq: 24 Sep 2019 14:57

Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

Tgt Ion: 97 Resp: 185407
 Ion Ratio Lower Upper
 97 100
 83 89.3 67.8 101.6
 85 58.2 45.8 68.6
 99 63.7 48.6 72.8

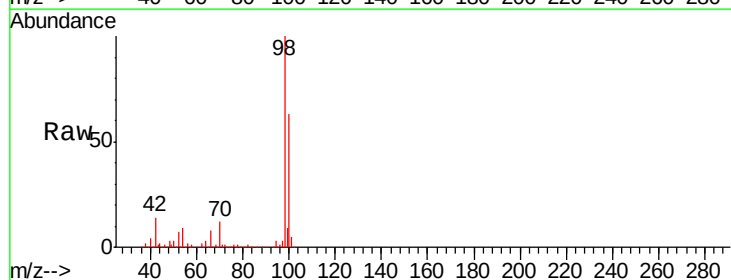


Abundance Ion 97.00 (96.70 to 97.70): VN0
 Ion 82.95 (82.65 to 83.65): VN0
 Ion 84.95 (84.65 to 85.65): VN0
 Ion 98.95 (98.65 to 99.65): VN0

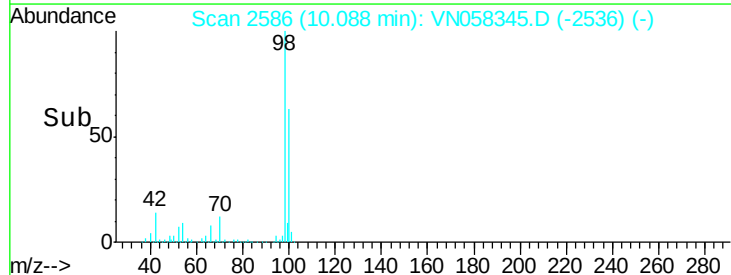
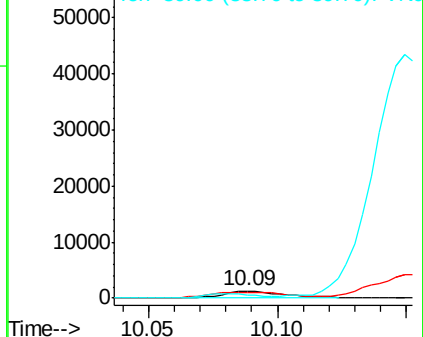


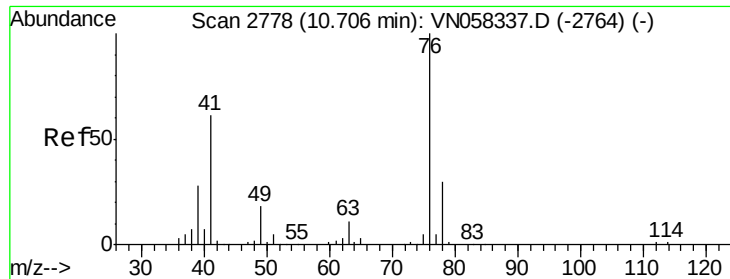
#51
 Ethyl methacrylate
 Concen: 0.257 ug/l
 RT: 10.09 min Scan# 2586
 Delta R.T. -0.34 min
 Lab File: VN058345.D
 Acq: 24 Sep 2019 14:57

Tgt Ion: 69 Resp: 2102
 Ion Ratio Lower Upper
 69 100
 41 52.1 35.4 106.1
 39 36.8 23.5 70.5



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

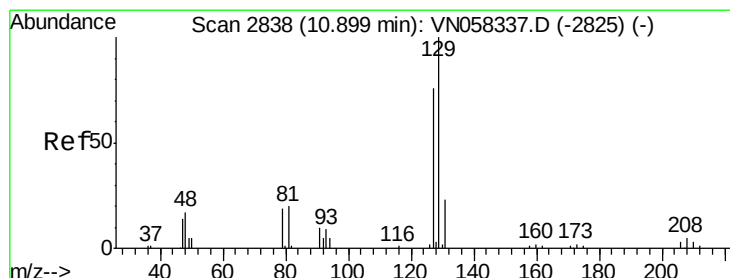
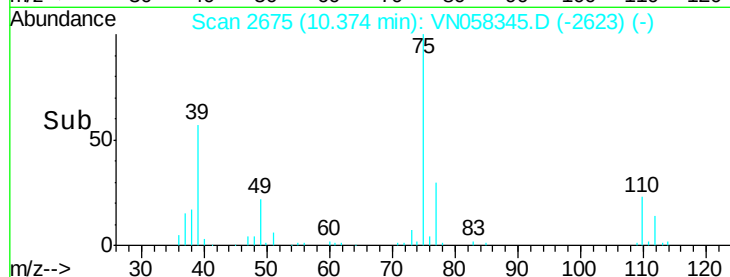
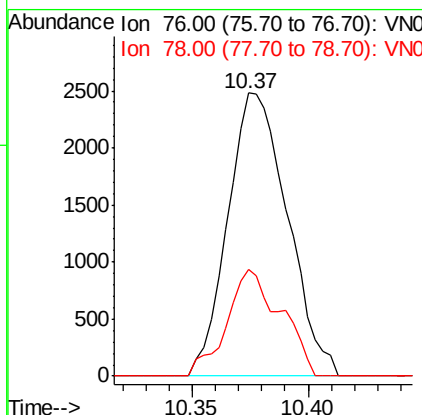
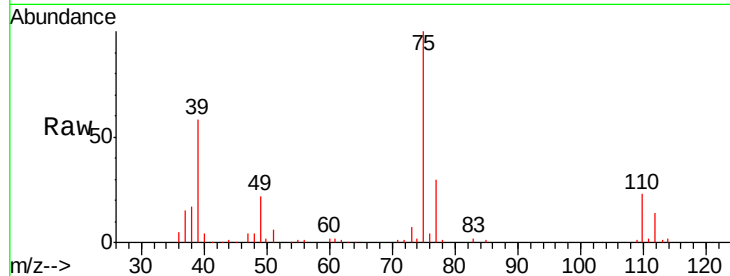




#52
 1,3-Dichloropropane
 Concen: 0.483 ug/l
 RT: 10.37 min Scan# 2675
 Delta R.T. -0.33 min
 Lab File: VN058345.D
 Acq: 24 Sep 2019 14:57

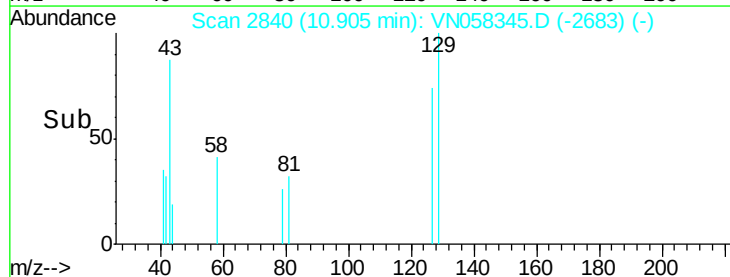
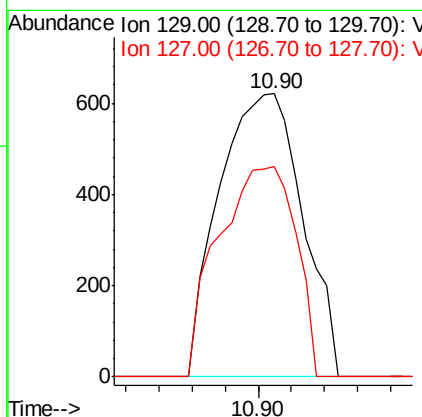
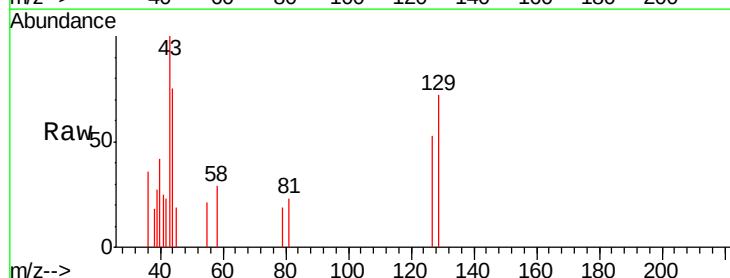
Instrument :
 MSVOA_N
 ClientSampled :
 PT-VOA-WP

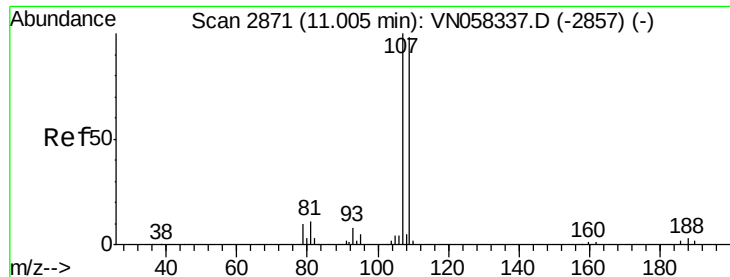
Tgt Ion: 76 Resp: 4436
 Ion Ratio Lower Upper
 76 100
 78 25.0 0.0 63.0



#53
 Dibromochloromethane
 Concen: 0.209 ug/l
 RT: 10.90 min Scan# 2840
 Delta R.T. 0.01 min
 Lab File: VN058345.D
 Acq: 24 Sep 2019 14:57

Tgt Ion: 129 Resp: 1085
 Ion Ratio Lower Upper
 129 100
 127 69.0 38.4 115.2

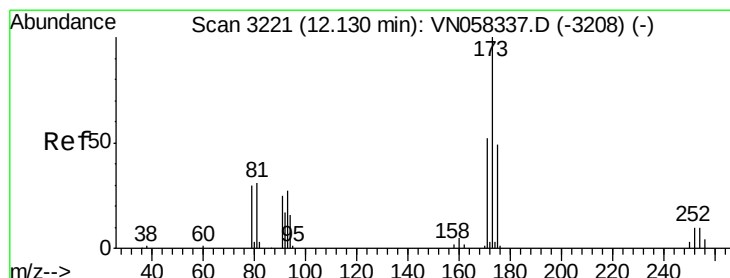
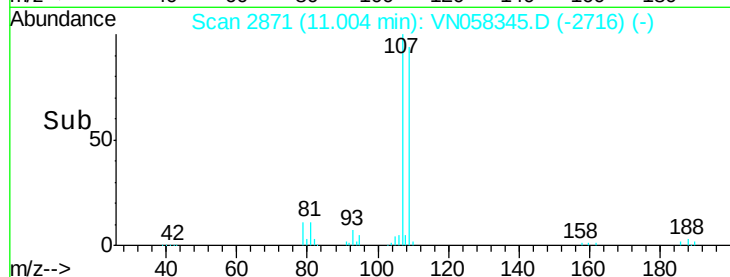
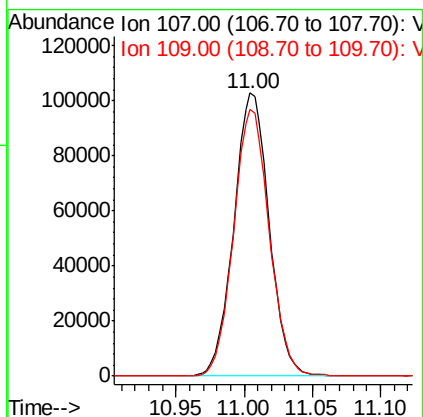
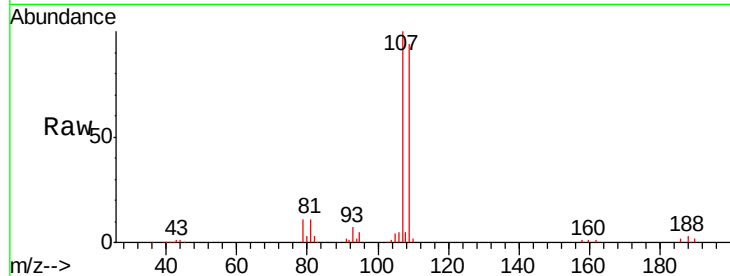




#54
 1,2-Dibromoethane
 Concen: 34.978 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN058345.D
 Acq: 24 Sep 2019 14:57

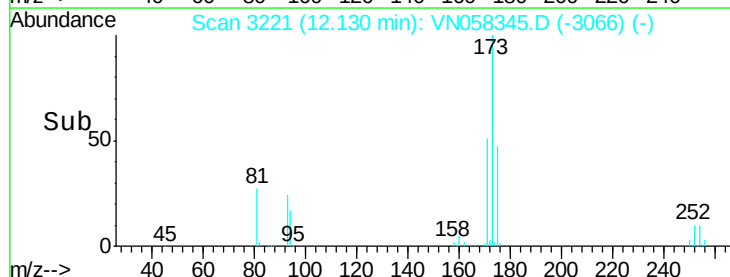
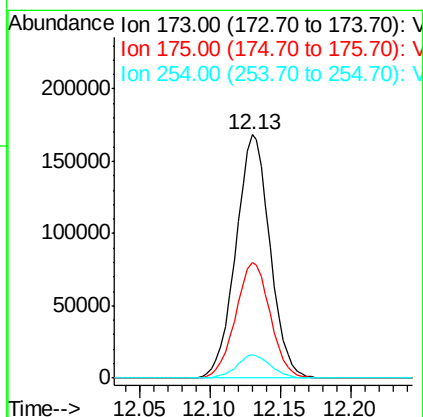
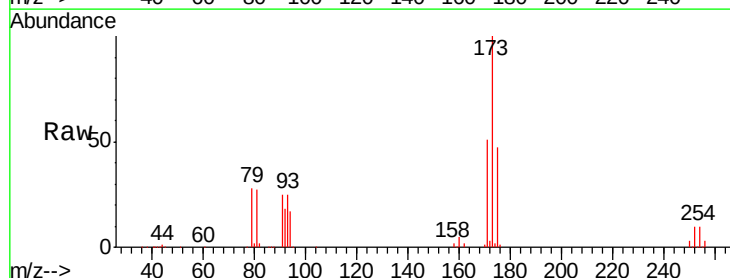
Instrument :
 MSVOA_N
 ClientSampled :
 PT-VOA-WP

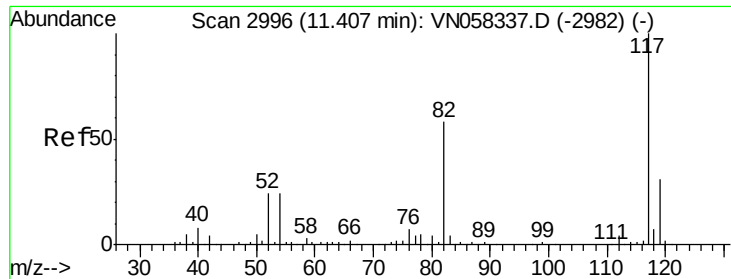
Tgt Ion:107 Resp: 184766
 Ion Ratio Lower Upper
 107 100
 109 94.9 76.5 114.7



#56
 Bromoform
 Concen: 86.974 ug/l
 RT: 12.13 min Scan# 3221
 Delta R.T. -0.00 min
 Lab File: VN058345.D
 Acq: 24 Sep 2019 14:57

Tgt Ion:173 Resp: 285279
 Ion Ratio Lower Upper
 173 100
 175 48.3 38.8 58.2
 254 9.4 7.8 11.8

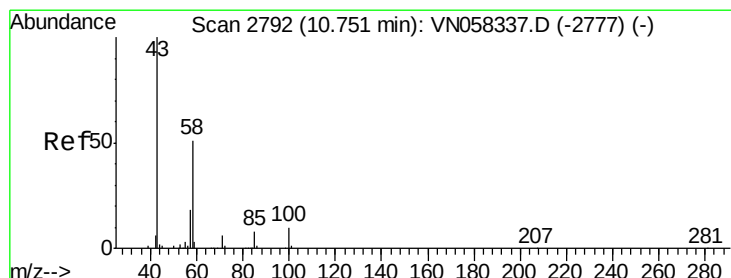
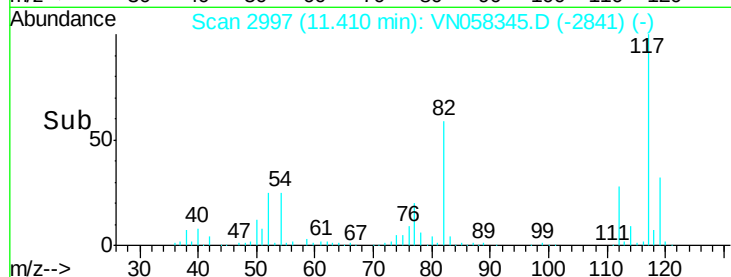
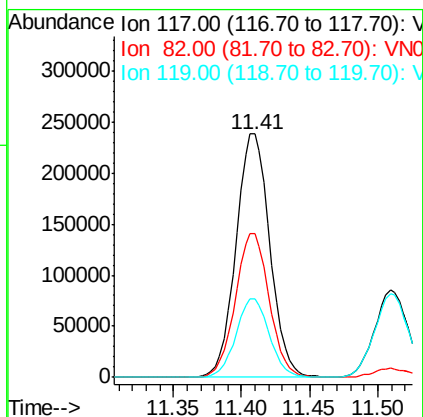
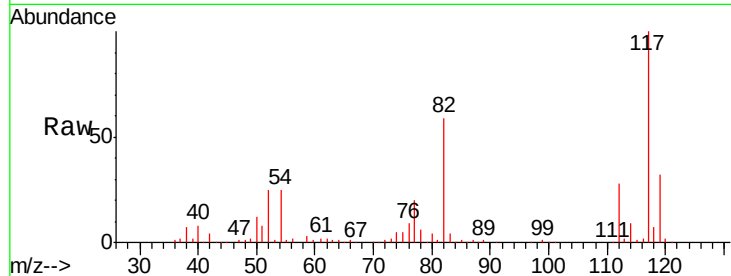




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058345.D
Acq: 24 Sep 2019 14:57

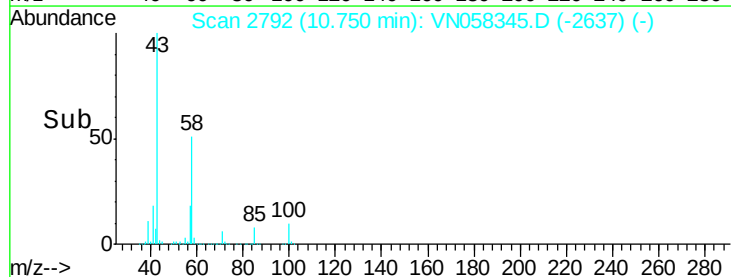
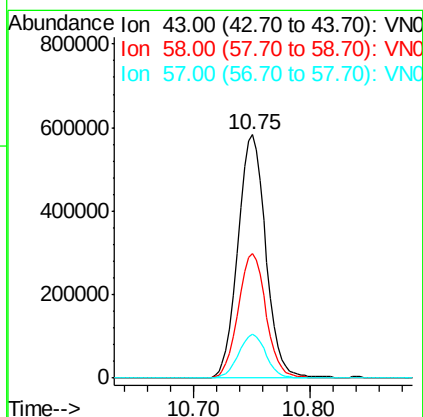
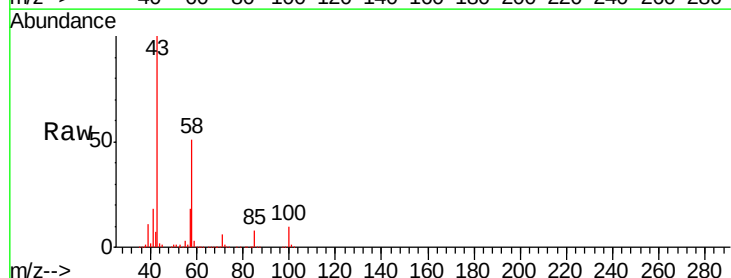
Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WP

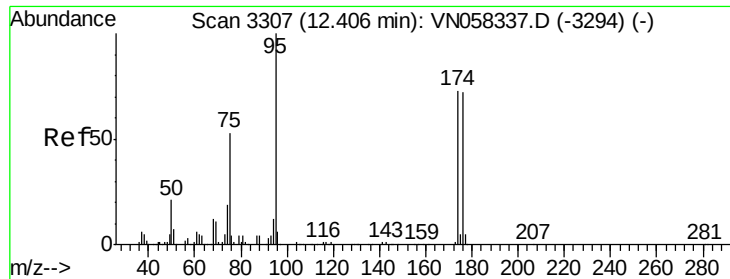
Tgt Ion: 117 Resp: 411161
Ion Ratio Lower Upper
117 100
82 59.2 46.4 69.6
119 31.9 25.1 37.7



#59
2-Hexanone
Concen: 198.864 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN058345.D
Acq: 24 Sep 2019 14:57

Tgt Ion: 43 Resp: 968544
Ion Ratio Lower Upper
43 100
58 51.3 40.7 61.1
57 17.9 14.7 22.1





#60

4-Bromofluorobenzene

Concen: 29.554 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.00 min

Lab File: VN058345.D

Acq: 24 Sep 2019 14:57

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WP

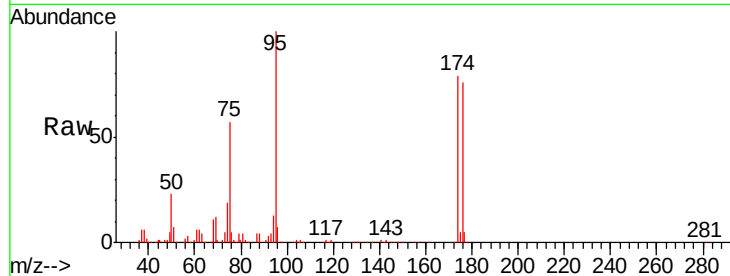
Tgt Ion: 95 Resp: 210258

Ion Ratio Lower Upper

95 100

174 77.2 59.0 88.6

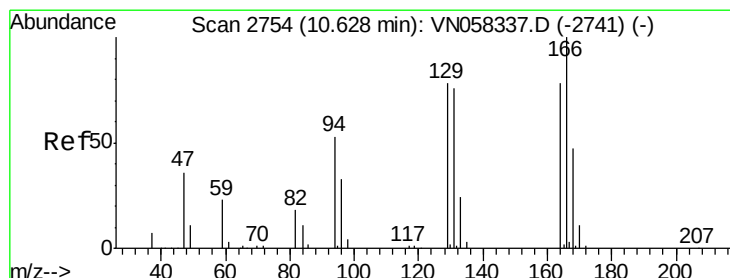
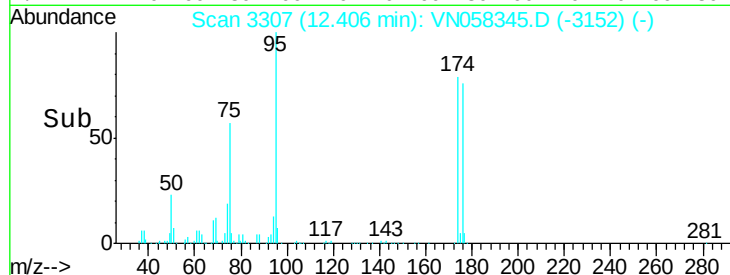
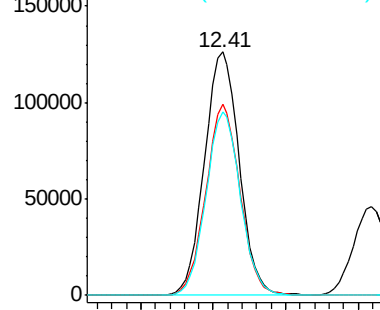
176 74.5 58.2 87.2



Abundance Ion 95.00 (94.70 to 95.70): VN058337.D (-3294) (-)

Ion 174.00 (173.70 to 174.70): VN058337.D (-3294) (-)

Ion 176.00 (175.70 to 176.70): VN058337.D (-3294) (-)



#61

Tetrachloroethene

Concen: 88.845 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.00 min

Lab File: VN058345.D

Acq: 24 Sep 2019 14:57

Tgt Ion: 164 Resp: 382704

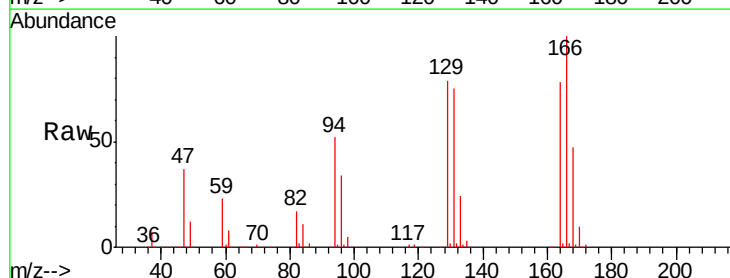
Ion Ratio Lower Upper

164 100

166 127.8 102.6 154.0

129 100.7 79.8 119.6

131 95.5 78.1 117.1

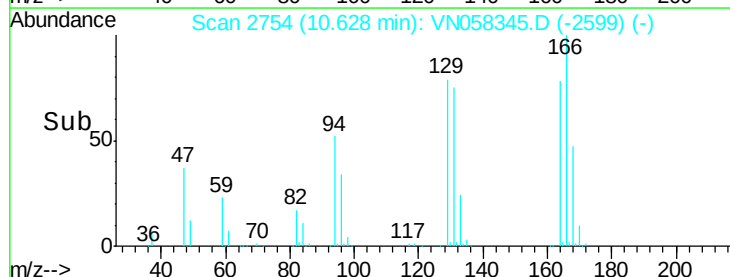
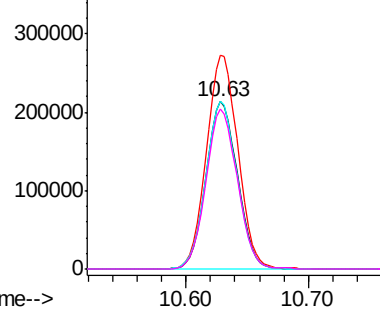


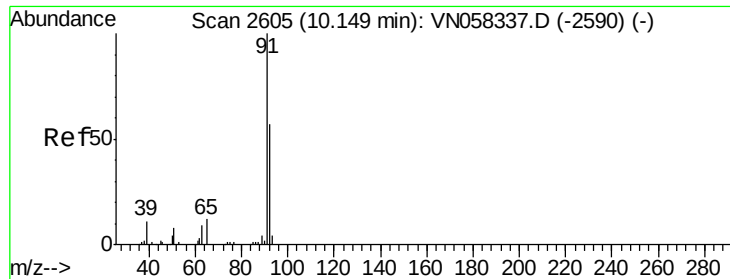
Abundance Ion 163.85 (163.55 to 164.55): VN058337.D (-2741) (-)

Ion 165.80 (165.50 to 166.50): VN058337.D (-2741) (-)

Ion 128.90 (128.60 to 129.60): VN058337.D (-2741) (-)

Ion 130.90 (130.60 to 131.60): VN058337.D (-2741) (-)





#62

Toluene

Concen: 31.405 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN058345.D

Acq: 24 Sep 2019 14:57

Instrument :

MSVOA_N

ClientSampleId :

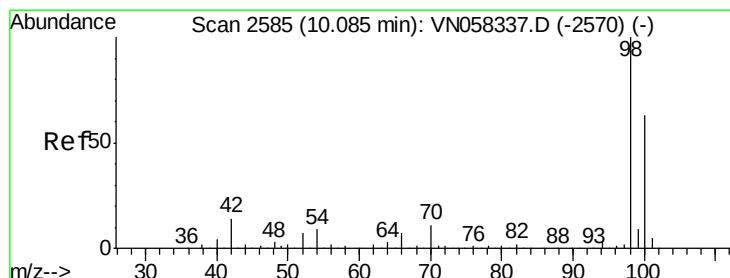
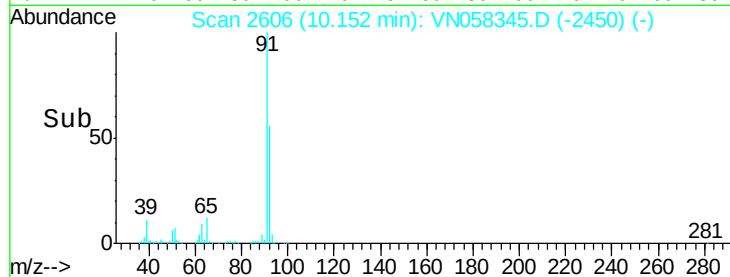
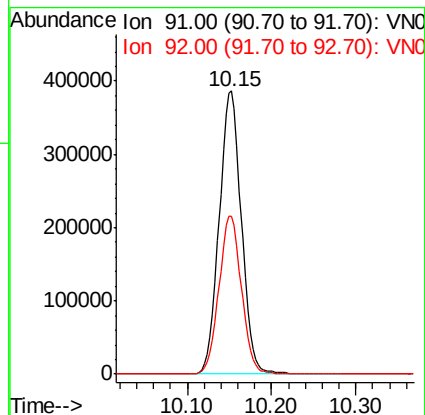
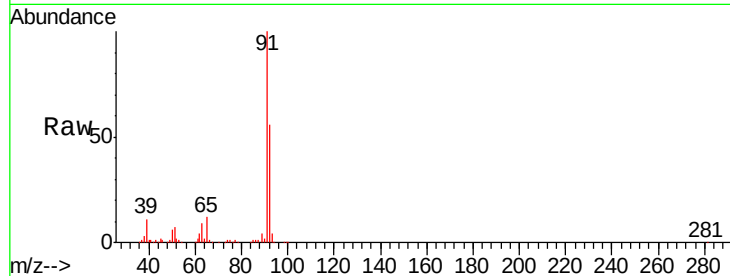
PT-VOA-WP

Tgt Ion: 91 Resp: 707182

Ion Ratio Lower Upper

91 100

92 56.6 45.5 68.3



#63

Toluene-d8

Concen: 29.793 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058345.D

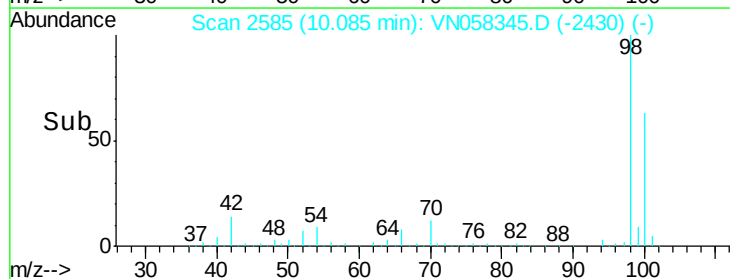
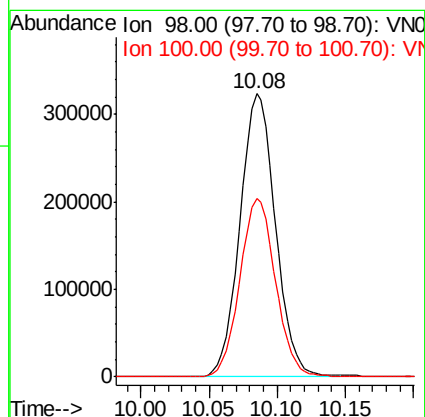
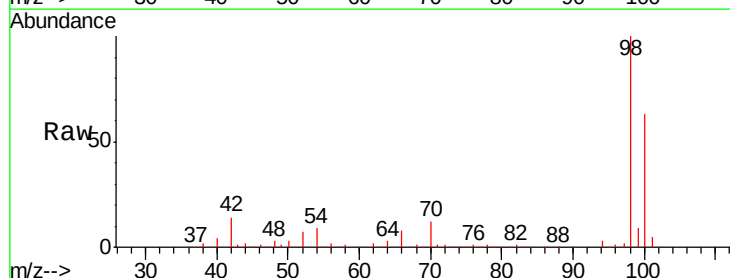
Acq: 24 Sep 2019 14:57

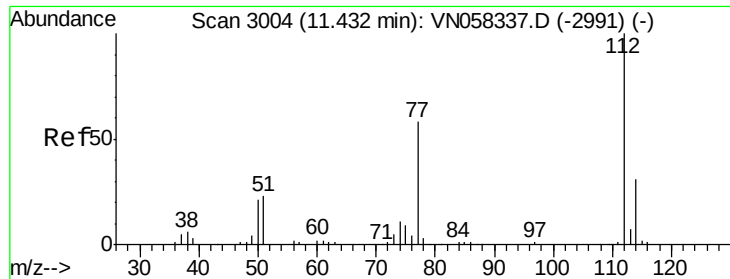
Tgt Ion: 98 Resp: 584615

Ion Ratio Lower Upper

98 100

100 63.4 50.2 75.2

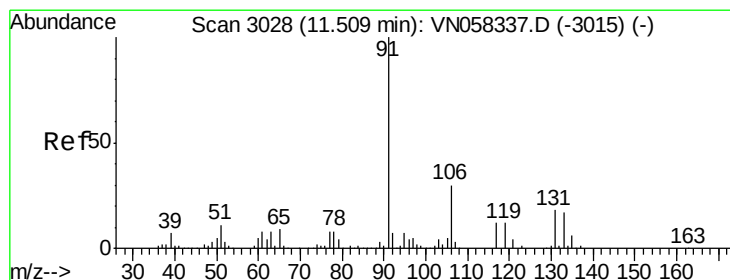
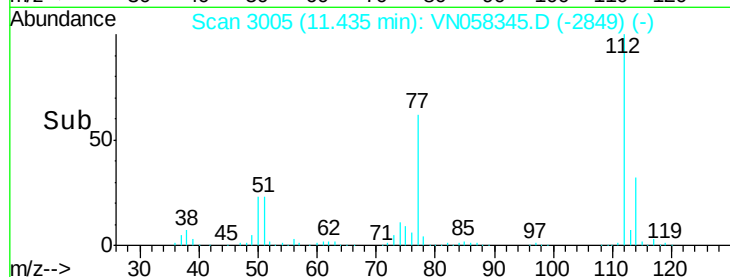
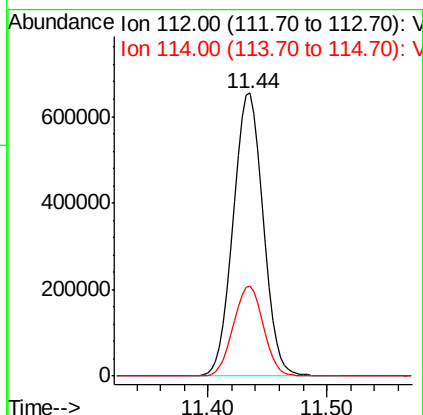
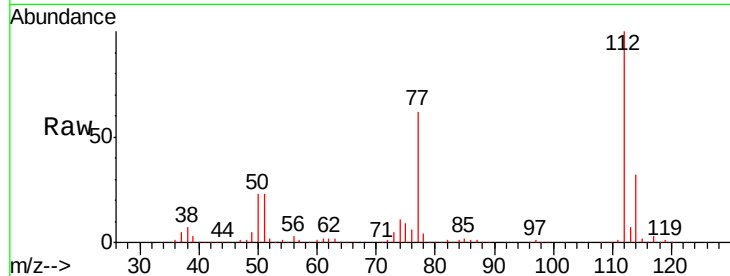




#64
Chlorobenzene
Concen: 82.874 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN058345.D
Acq: 24 Sep 2019 14:57

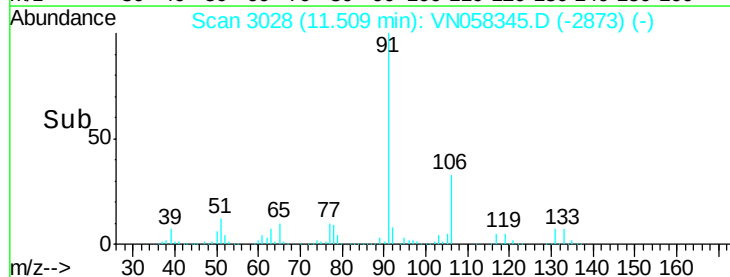
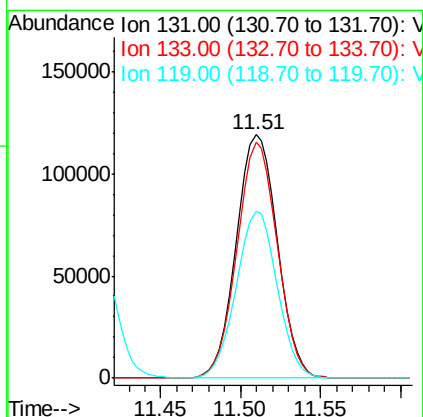
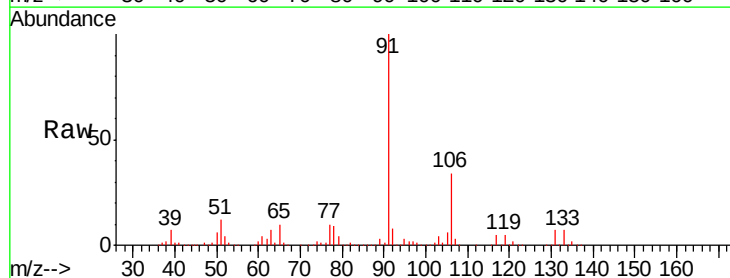
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

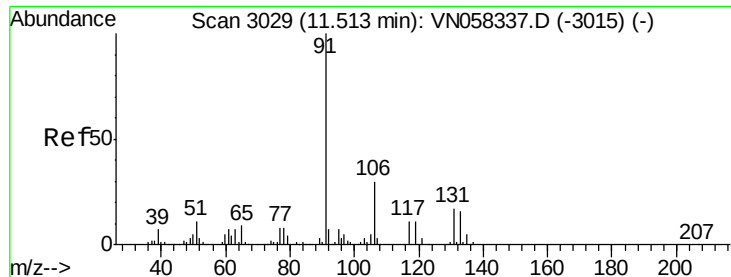
Tgt Ion:112 Resp: 1146805
Ion Ratio Lower Upper
112 100
114 31.7 25.1 37.7



#65
1,1,1,2-Tetrachloroethane
Concen: 43.010 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN058345.D
Acq: 24 Sep 2019 14:57

Tgt Ion:131 Resp: 208644
Ion Ratio Lower Upper
131 100
133 94.9 0.0 191.8
119 68.1 0.0 134.2

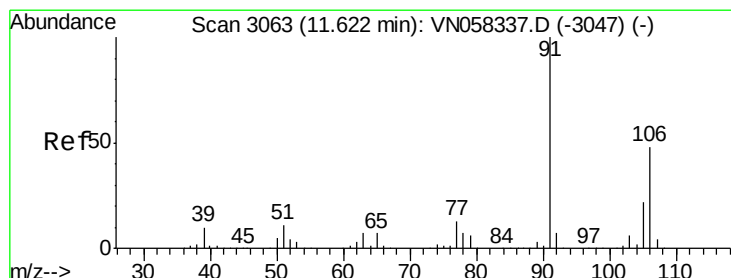
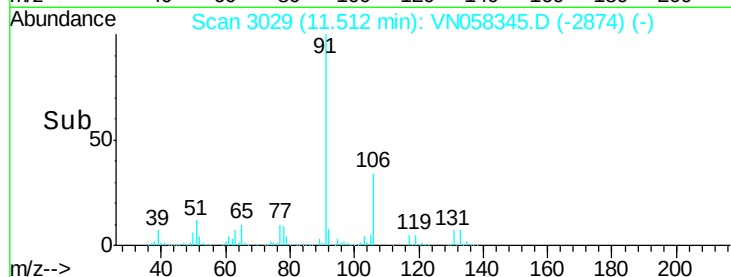
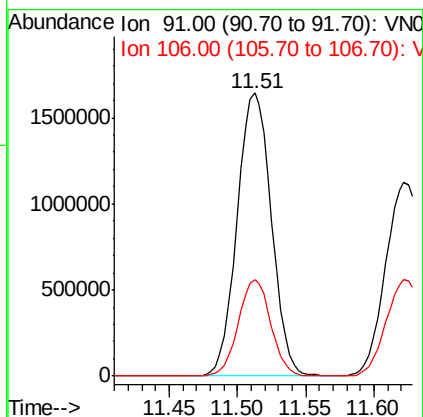
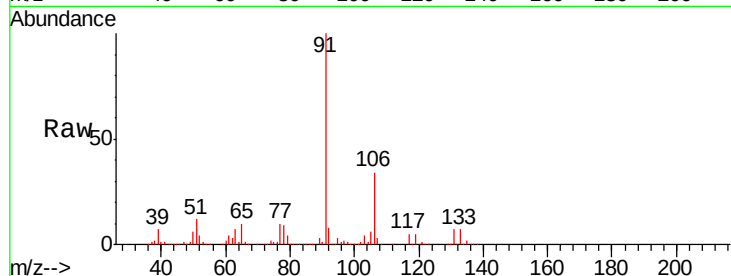




#66
Ethyl Benzene
Concen: 116.809 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. -0.00 min
Lab File: VN058345.D
Acq: 24 Sep 2019 14:57

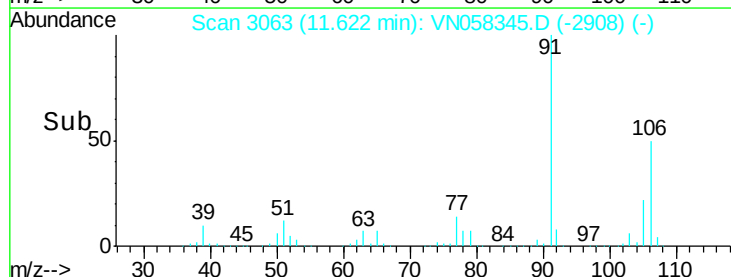
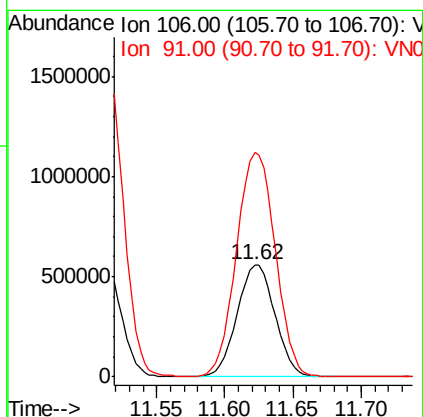
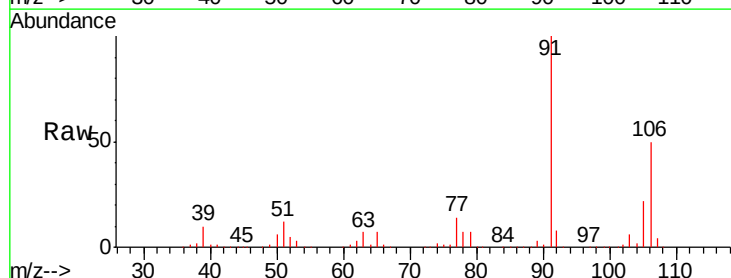
Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WP

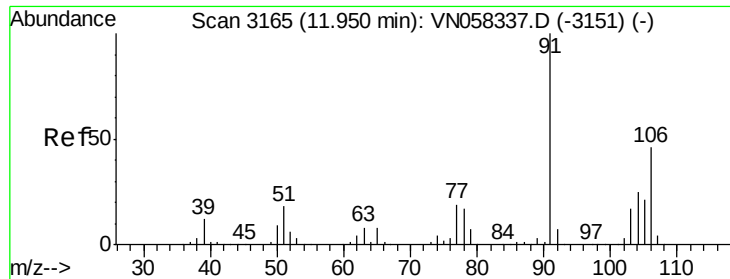
Tgt Ion: 91 Resp: 2868144
Ion Ratio Lower Upper
91 100
106 34.1 24.2 36.4



#67
m/p-Xylenes
Concen: 114.031 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN058345.D
Acq: 24 Sep 2019 14:57

Tgt Ion: 106 Resp: 1074954
Ion Ratio Lower Upper
106 100
91 206.4 167.8 251.6

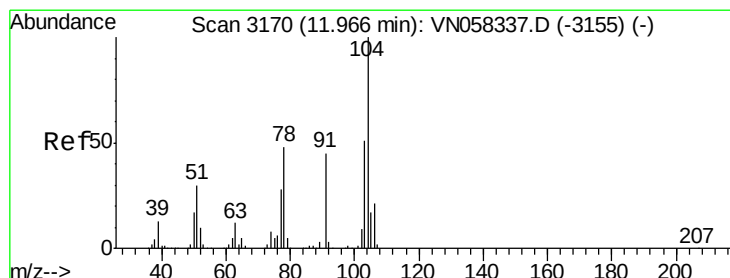
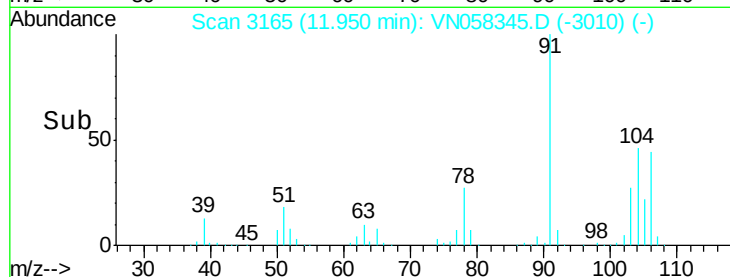
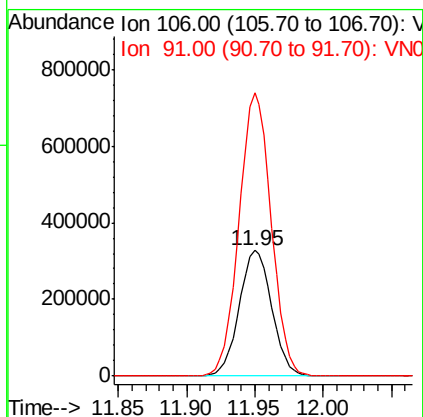
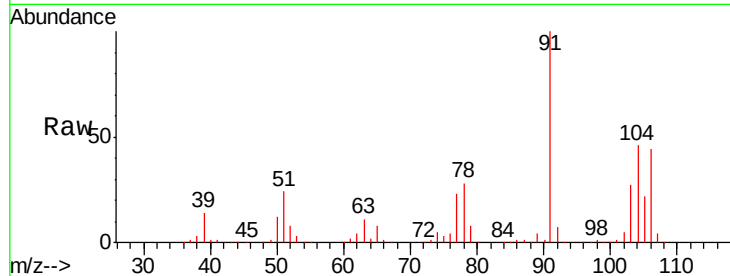




#68
o-Xylene
Concen: 59.162 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. -0.00 min
Lab File: VN058345.D
Acq: 24 Sep 2019 14:57

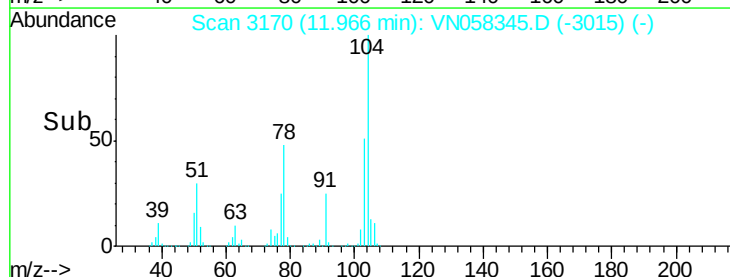
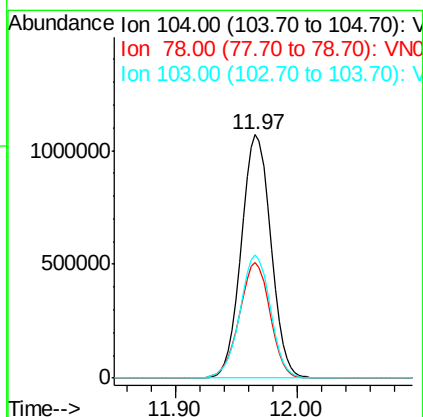
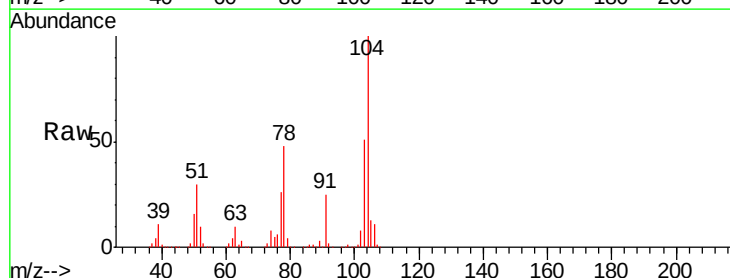
Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WP

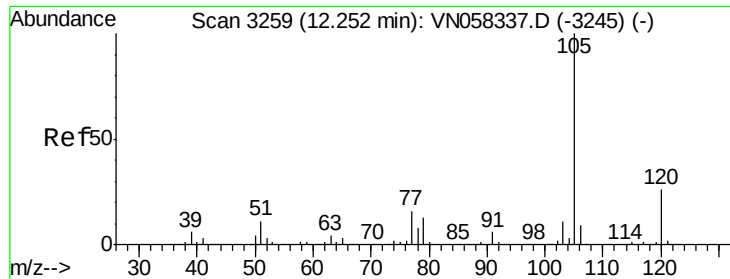
Tgt Ion:106 Resp: 542304
Ion Ratio Lower Upper
106 100
91 222.6 108.7 325.9



#69
Styrene
Concen: 116.497 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. -0.00 min
Lab File: VN058345.D
Acq: 24 Sep 2019 14:57

Tgt Ion:104 Resp: 1785745
Ion Ratio Lower Upper
104 100
78 49.4 42.3 63.5
103 52.3 44.1 66.1





#70

Isopropylbenzene

Concen: 0.231 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN058345.D

Acq: 24 Sep 2019 14:57

Instrument :

MSVOA_N

ClientSampled :

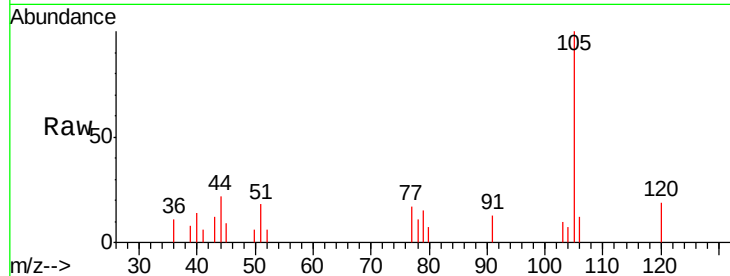
PT-VOA-WP

Tgt Ion: 105 Resp: 5477

Ion Ratio Lower Upper

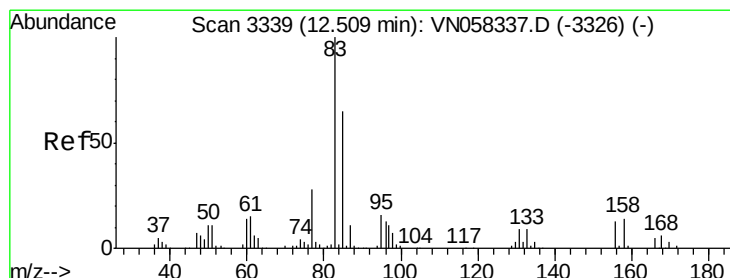
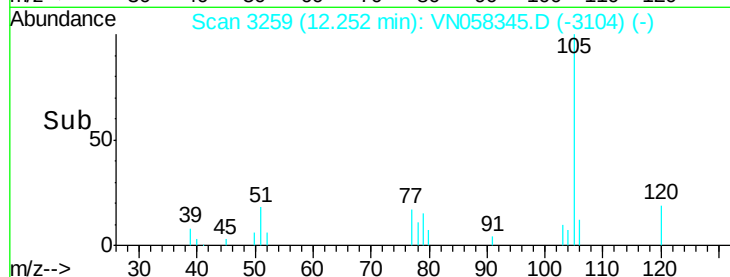
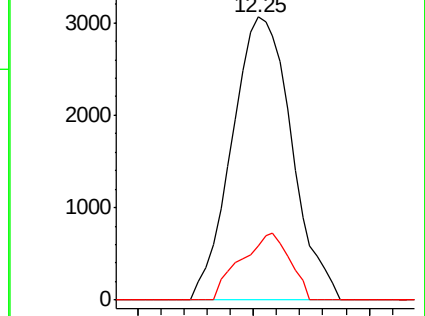
105 100

120 19.5 18.2 33.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#71

1,1,2,2-Tetrachloroethane

Concen: 65.066 ug/l

RT: 12.51 min Scan# 3339

Delta R.T. -0.00 min

Lab File: VN058345.D

Acq: 24 Sep 2019 14:57

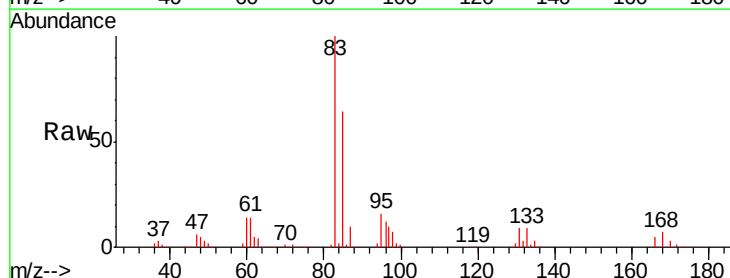
Tgt Ion: 83 Resp: 491234

Ion Ratio Lower Upper

83 100

131 9.3 4.8 14.3

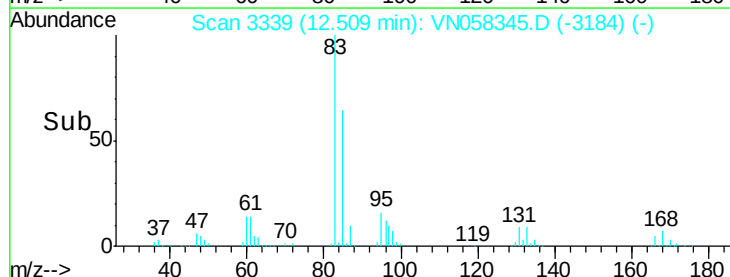
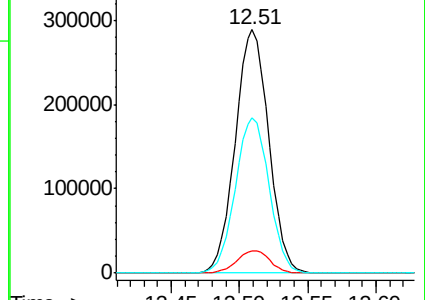
85 64.3 32.6 97.7

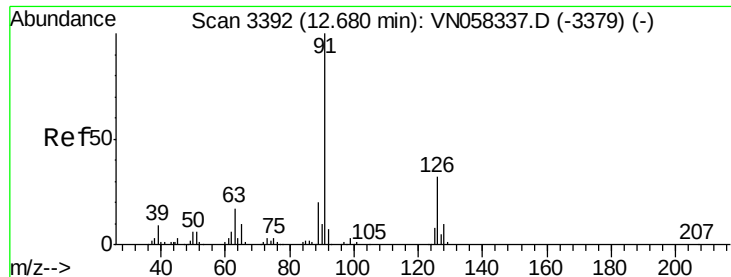


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): V





#75

2-Chlorotoluene

Concen: 14.136 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.06 min

Lab File: VN058345.D

Acq: 24 Sep 2019 14:57

Instrument :

MSVOA_N

ClientSampled :

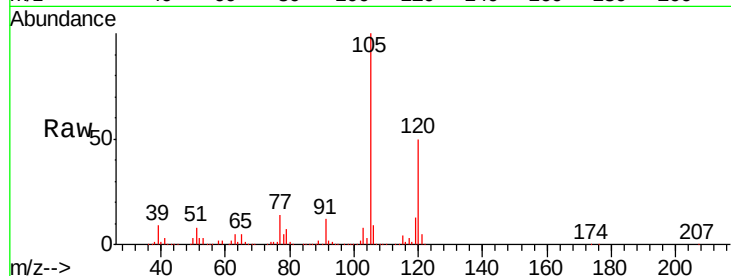
PT-VOA-WP

Tgt Ion: 91 Resp: 242158

Ion Ratio Lower Upper

91 100

126 0.0 0.0 65.0



Abundance Ion 91.00 (90.70 to 91.70): VN058337.D (-3379) (-)

Ion 126.00 (125.70 to 126.70): VN058337.D (-3379) (-)

12.74

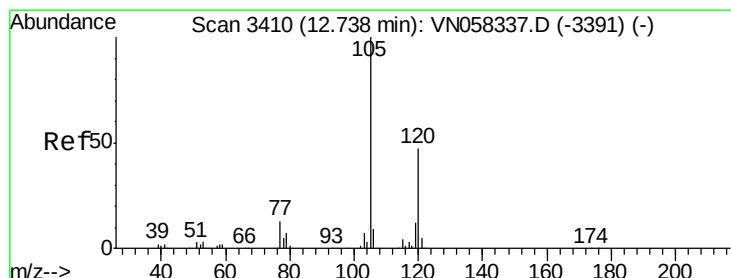
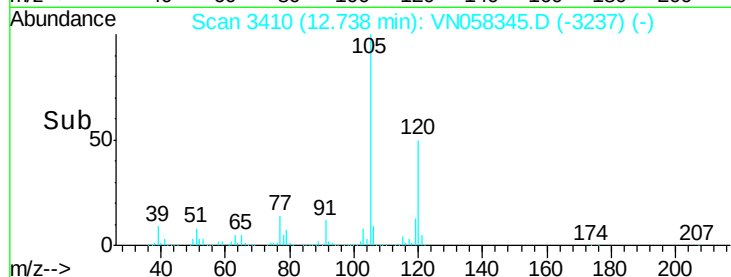
150000

100000

50000

0

Time--> 12.65 12.70 12.75 12.80



#76

1,3,5-Trimethylbenzene

Concen: 104.321 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN058345.D

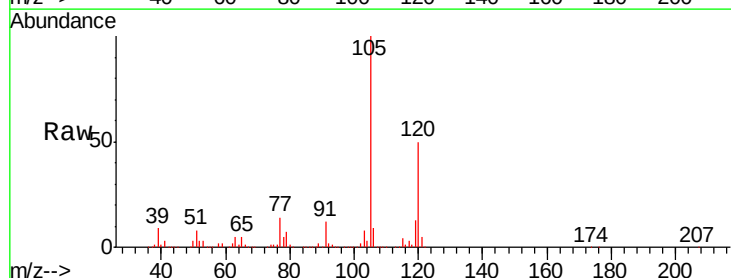
Acq: 24 Sep 2019 14:57

Tgt Ion: 105 Resp: 2133771

Ion Ratio Lower Upper

105 100

120 48.6 0.0 94.4



Abundance Ion 105.00 (104.70 to 105.70): VN058337.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN058337.D (-3391) (-)

12.74

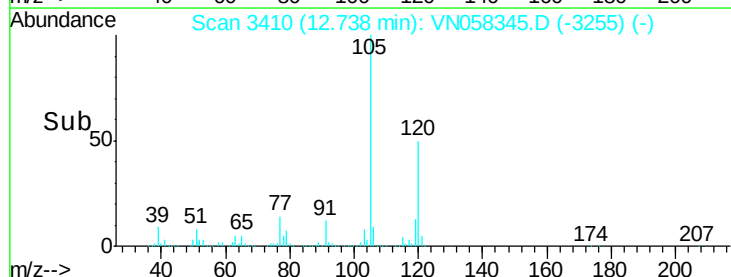
1500000

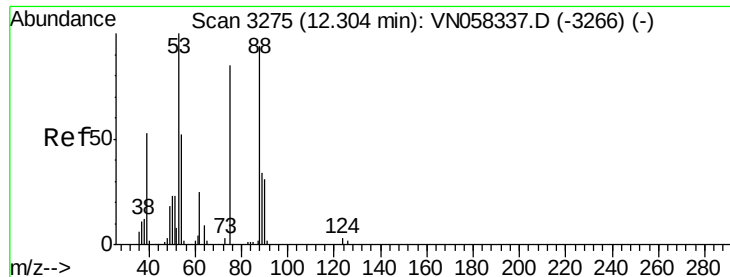
1000000

500000

0

Time--> 12.65 12.70 12.75 12.80





#77

t-1,4-Dichloro-2-butene

Concen: 55.331 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058345.D

Acq: 24 Sep 2019 14:57

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WP

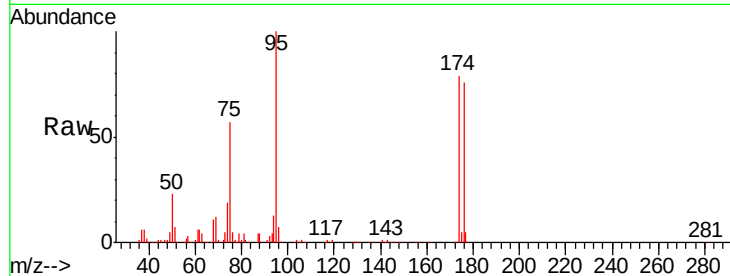
Tgt Ion: 75 Resp: 117188

Ion Ratio Lower Upper

75 100

53 0.0 59.0 176.8#

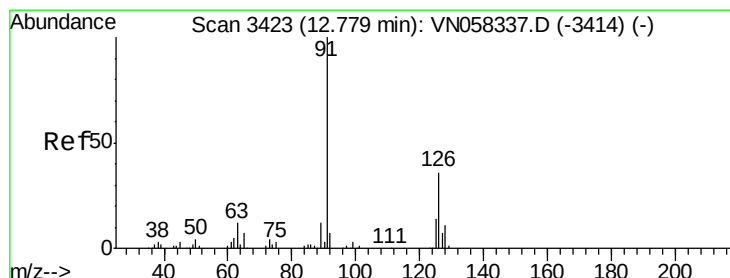
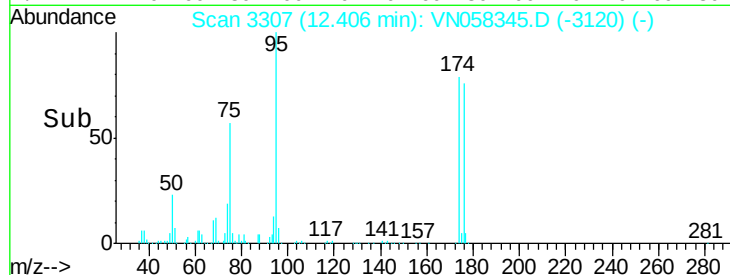
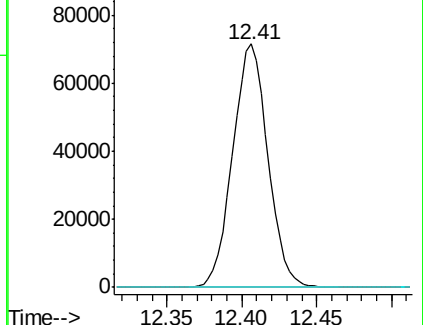
89 0.0 21.6 65.0#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#78

4-Chlorotoluene

Concen: 13.793 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. -0.04 min

Lab File: VN058345.D

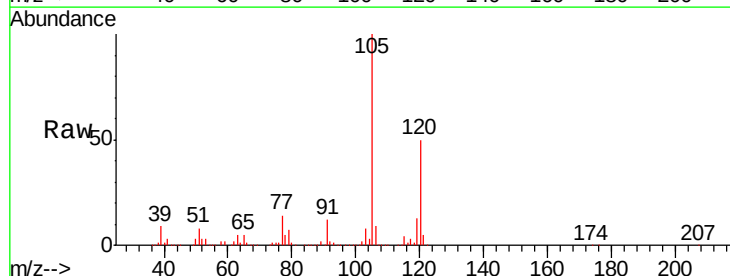
Acq: 24 Sep 2019 14:57

Tgt Ion: 91 Resp: 242158

Ion Ratio Lower Upper

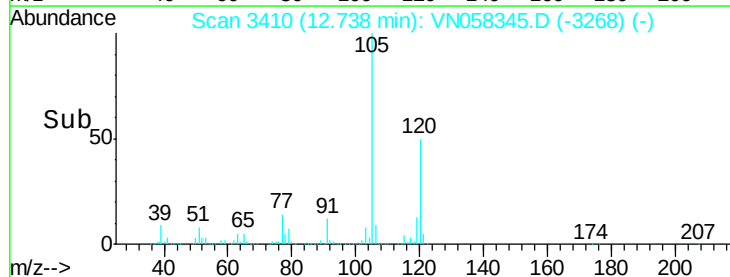
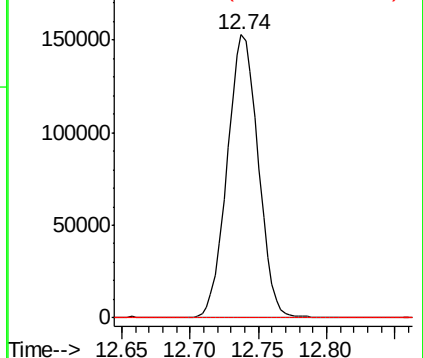
91 100

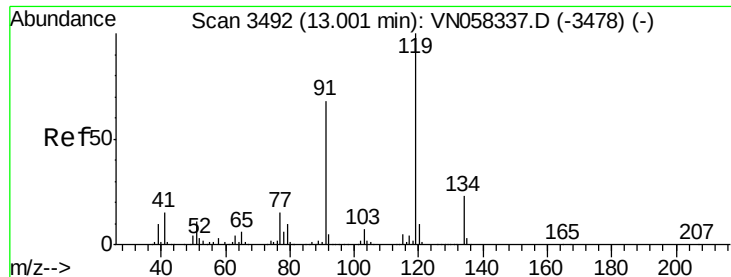
126 0.0 0.0 63.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 126.00 (125.70 to 126.70): V

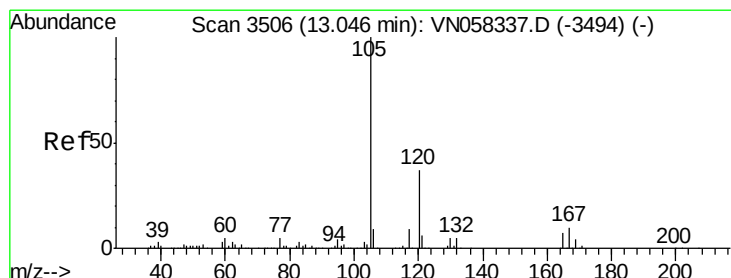
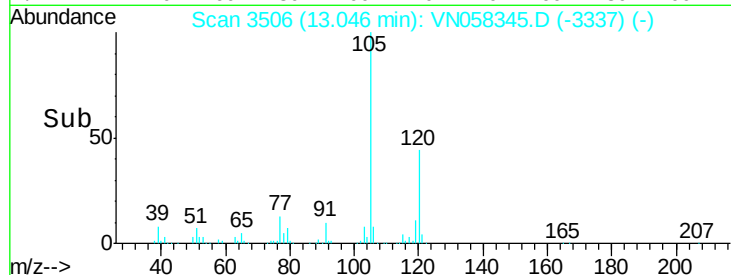
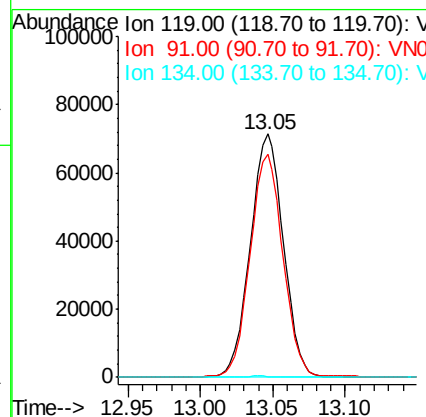
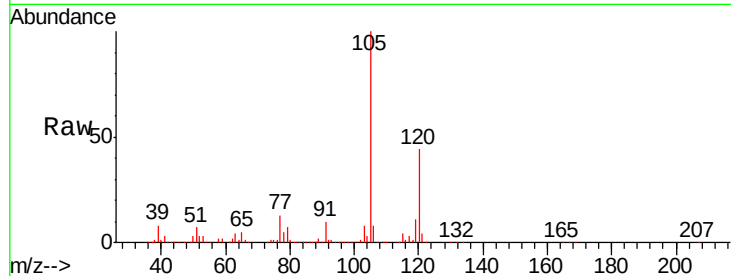




#79
tert-butylbenzene
Concen: 6.423 ug/l
RT: 13.05 min Scan# 3506
Delta R.T. 0.04 min
Lab File: VN058345.D
Acq: 24 Sep 2019 14:57

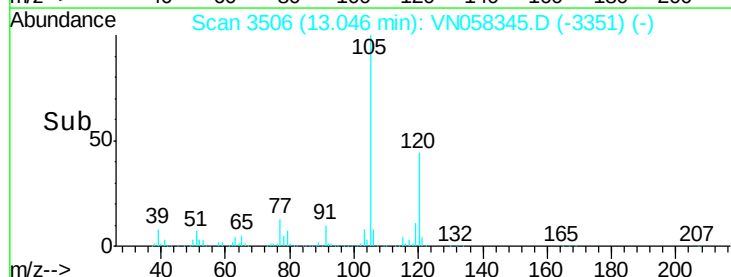
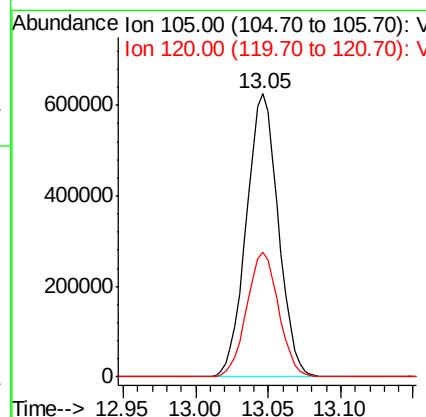
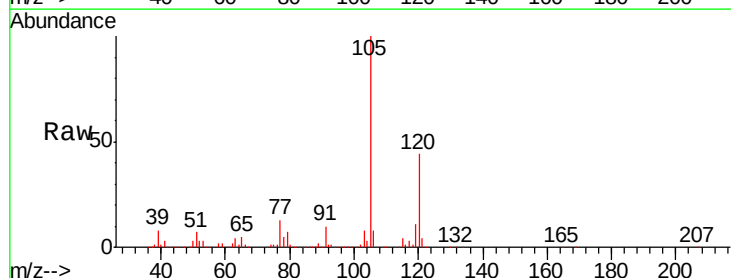
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

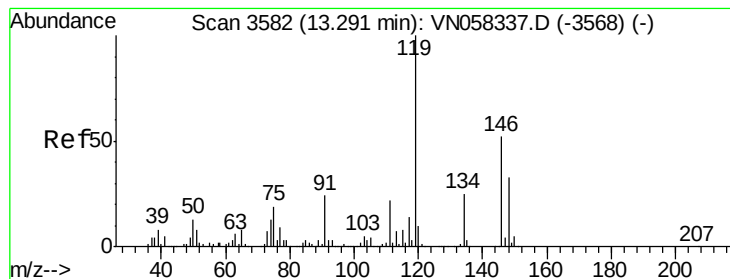
Tgt Ion:119 Resp: 113740
Ion Ratio Lower Upper
119 100
91 91.1 0.0 138.2
134 0.4 0.0 46.8



#80
1,2,4-Trimethylbenzene
Concen: 47.137 ug/l
RT: 13.05 min Scan# 3506
Delta R.T. -0.00 min
Lab File: VN058345.D
Acq: 24 Sep 2019 14:57

Tgt Ion:105 Resp: 962369
Ion Ratio Lower Upper
105 100
120 43.8 0.0 86.6





#83

1,3-Dichlorobenzene

Concen: 108.235 ug/l

RT: 13.37 min Scan# 3607

Delta R.T. 0.08 min

Lab File: VN058345.D

Acq: 24 Sep 2019 14:57

Instrument :

MSVOA_N

ClientSampled :

PT-VOA-WP

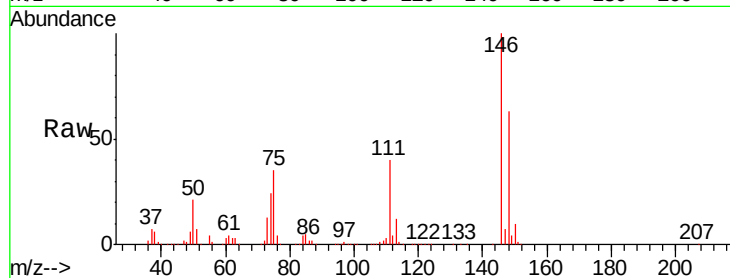
Tgt Ion:146 Resp: 1148948

Ion Ratio Lower Upper

146 100

111 39.9 20.9 62.8

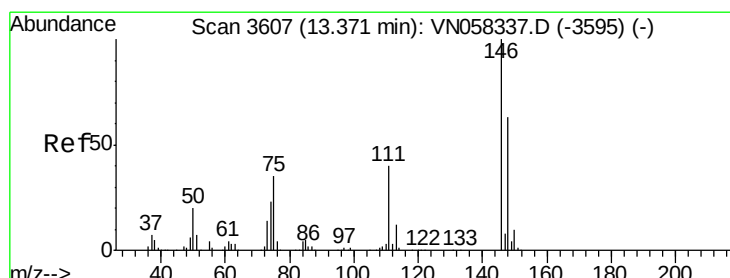
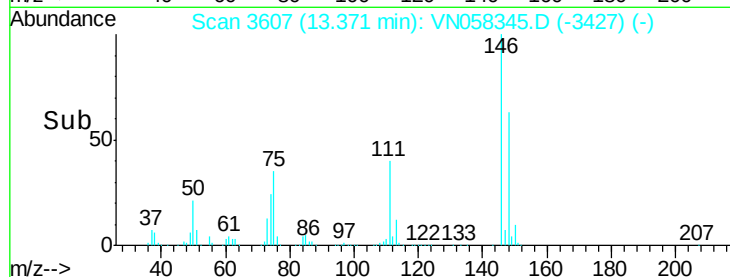
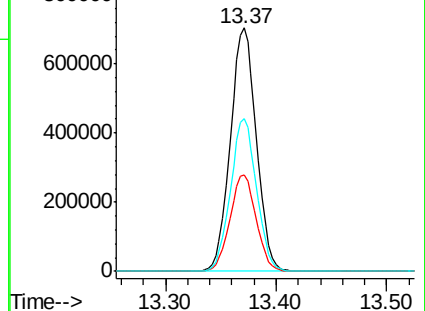
148 62.6 32.0 96.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#84

1,4-Dichlorobenzene

Concen: 108.750 ug/l

RT: 13.37 min Scan# 3607

Delta R.T. -0.00 min

Lab File: VN058345.D

Acq: 24 Sep 2019 14:57

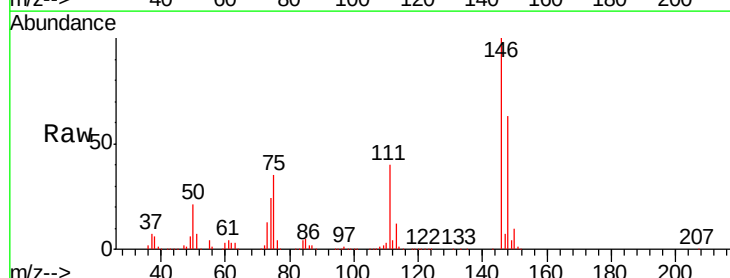
Tgt Ion:146 Resp: 1148948

Ion Ratio Lower Upper

146 100

111 39.9 20.4 61.3

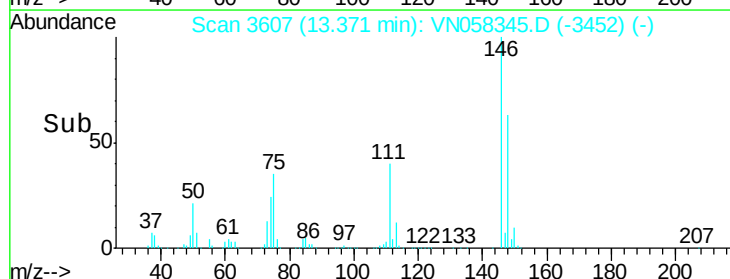
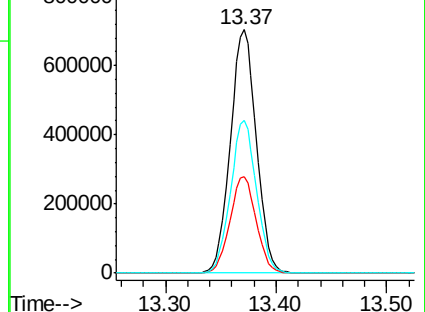
148 62.6 31.9 95.7

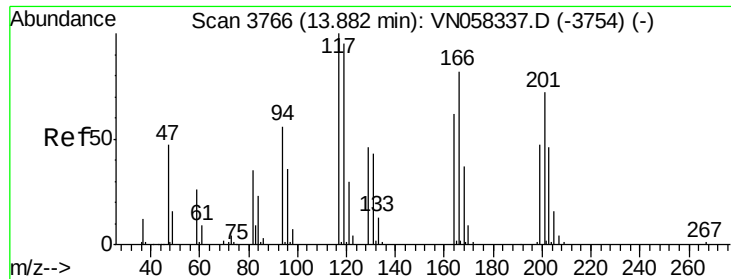


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#86

Hexachloroethane

Concen: 0.515 ug/l

RT: 13.88 min Scan# 3765

Delta R.T. -0.00 min

Lab File: VN058345.D

Acq: 24 Sep 2019 14:57

Instrument :

MSVOA_N

ClientSampleId :

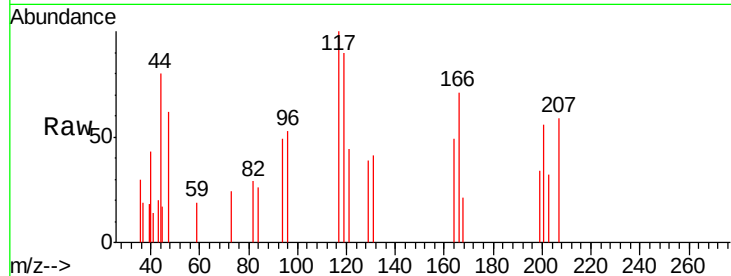
PT-VOA-WP

Tgt Ion:117 Resp: 1739

Ion Ratio Lower Upper

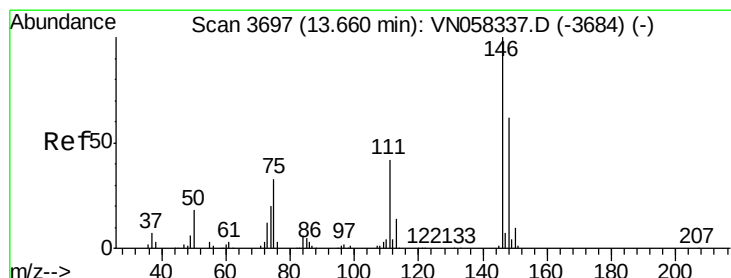
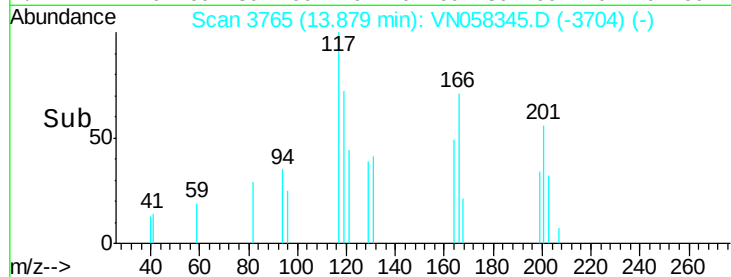
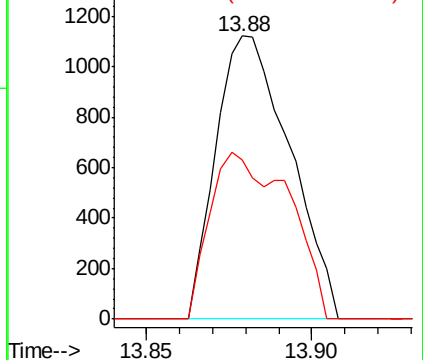
117 100

201 40.5 37.2 111.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V



#87

1,2-Dichlorobenzene

Concen: 56.132 ug/l

RT: 13.66 min Scan# 3697

Delta R.T. -0.00 min

Lab File: VN058345.D

Acq: 24 Sep 2019 14:57

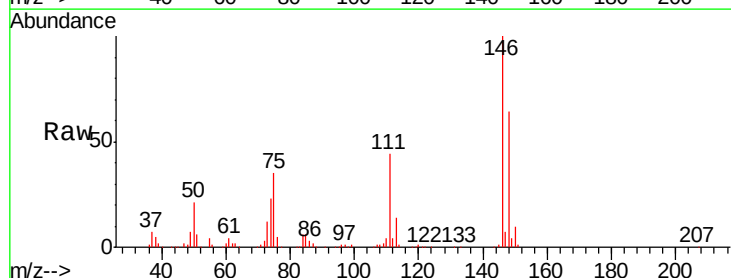
Tgt Ion:146 Resp: 581834

Ion Ratio Lower Upper

146 100

111 43.5 21.1 63.3

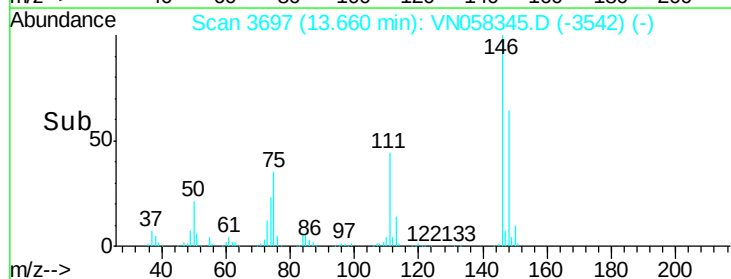
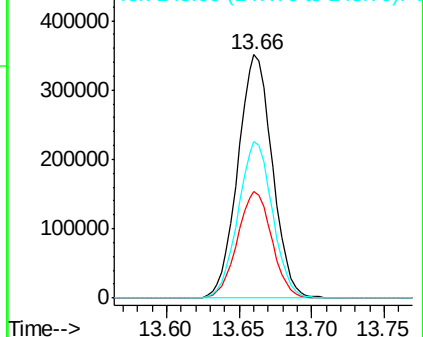
148 64.0 31.9 95.7

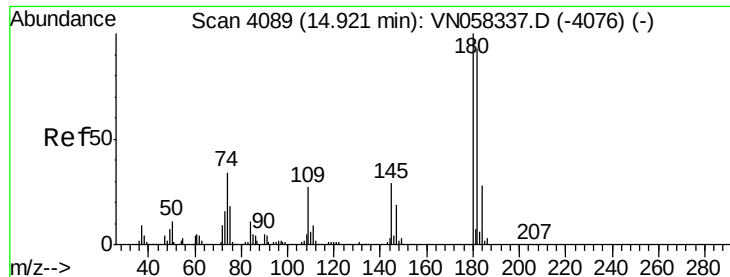


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

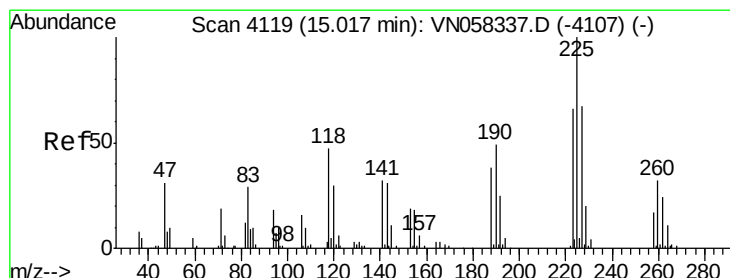
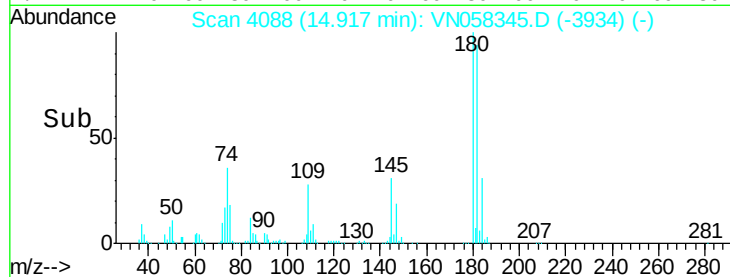
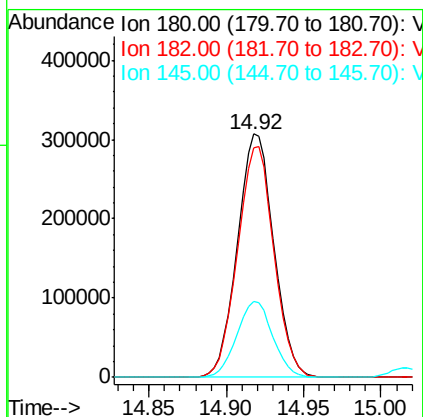
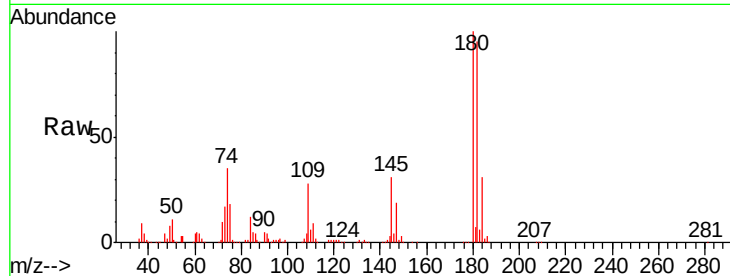




#89
 1,2,4-Trichlorobenzene
 Concen: 73.985 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. -0.00 min
 Lab File: VN058345.D
 Acq: 24 Sep 2019 14:57

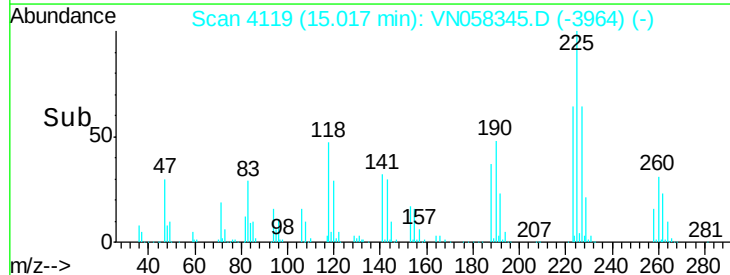
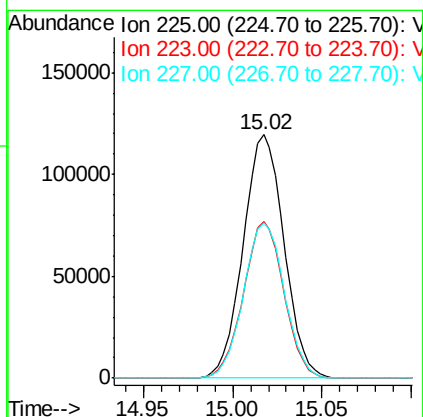
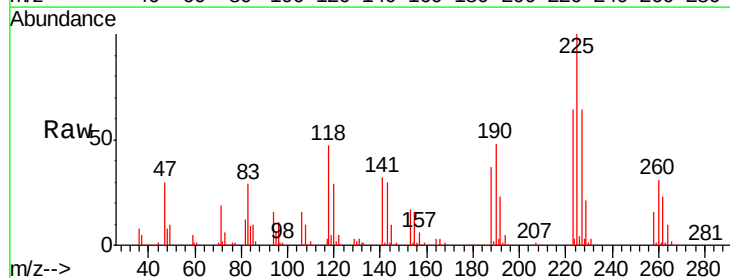
Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

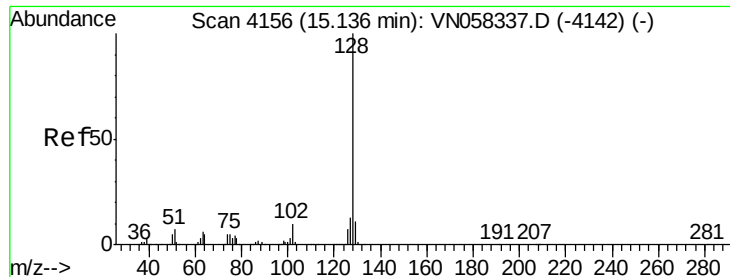
Tgt Ion:180 Resp: 501021
 Ion Ratio Lower Upper
 180 100
 182 94.8 75.2 112.8
 145 30.9 25.1 37.7



#90
 Hexachlorobutadiene
 Concen: 58.395 ug/l
 RT: 15.02 min Scan# 4119
 Delta R.T. -0.00 min
 Lab File: VN058345.D
 Acq: 24 Sep 2019 14:57

Tgt Ion:225 Resp: 191341
 Ion Ratio Lower Upper
 225 100
 223 63.4 0.0 132.6
 227 63.7 0.0 129.2

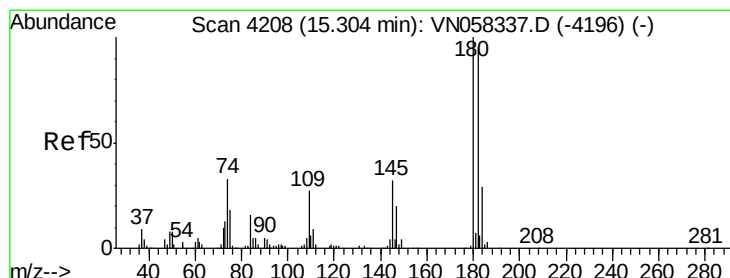
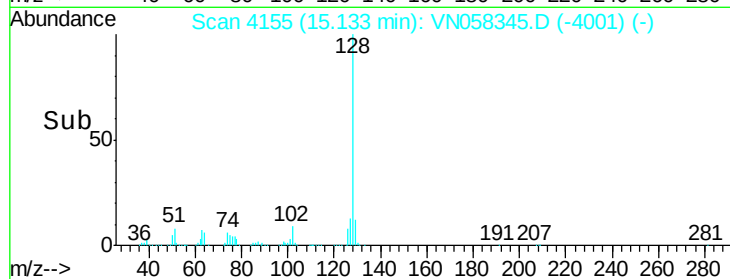
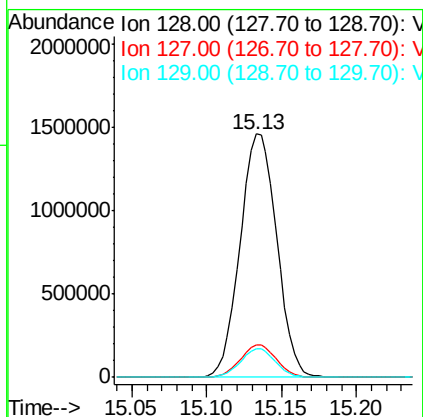
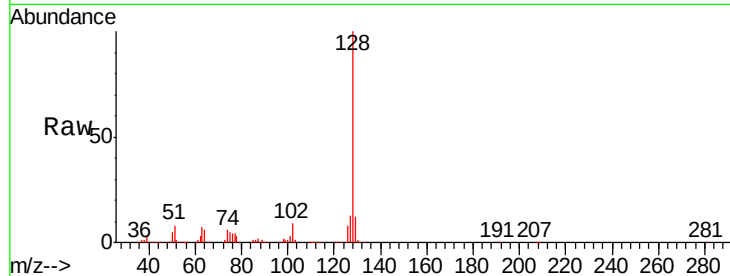




#91
Naphthalene
Concen: 133.881 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN058345.D
Acq: 24 Sep 2019 14:57

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

Tgt Ion:128 Resp: 2489806
Ion Ratio Lower Upper
128 100
127 13.1 10.2 15.4
129 11.1 8.6 13.0



#92
1,2,3-Trichlorobenzene
Concen: 0.474 ug/l
RT: 15.31 min Scan# 4210
Delta R.T. 0.01 min
Lab File: VN058345.D
Acq: 24 Sep 2019 14:57

Tgt Ion:180 Resp: 3080
Ion Ratio Lower Upper
180 100
182 99.5 0.0 189.4
145 24.5 0.0 64.0

