

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091120\
 Data File : VN063313.D
 Acq On : 11 Sep 2020 14:42
 Operator : JC/MD
 Sample : L3971-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

Quant Time: Sep 12 00:40:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091020W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 11 06:02:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	449767	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	818299	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	735420	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	330902	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	359577	50.89	ug/l	0.00
Spiked Amount			Recovery	=	101.78%	
35) Dibromofluoromethane	7.55	113	261681	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	
50) Toluene-d8	10.06	98	1022169	50.53	ug/l	0.00
Spiked Amount			Recovery	=	101.06%	
62) 4-Bromofluorobenzene	12.38	95	365316	48.89	ug/l	0.00
Spiked Amount			Recovery	=	97.78%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	354301	63.295	ug/l	99
5) Bromomethane	2.55	94	3095	0.726	ug/l #	70
7) Trichlorofluoromethane	2.99	101	658667	69.696	ug/l	100
11) Tert butyl alcohol	4.72	59	297	0.318	ug/l #	72
12) 1,1-Dichloroethene	3.70	96	3358	0.681	ug/l #	74
13) Acrolein	3.57	56	153	32.719	ug/l #	64
14) Allyl chloride	4.51	41	25194	2.490	ug/l #	23
15) Acrylonitrile	4.99	53	7109	2.783	ug/l #	37
16) Acetone	3.78	43	277771	113.837	ug/l	97
17) Carbon Disulfide	4.01	76	655	Below Cal	#	75
19) Methyl tert-butyl Ether	4.99	73	639485	36.311	ug/l	100
20) Methylene Chloride	4.51	84	596861	108.941	ug/l	96
24) 1,1-Dichloroethane	5.80	63	1330915	123.429	ug/l	99
25) 2-Butanone	6.78	43	412646	114.483	ug/l	99
28) Bromochloromethane	7.33	49	60777	11.624	ug/l #	19
30) Chloroform	7.33	83	666999	61.780	ug/l	98
31) Cyclohexane	7.63	56	12281	1.239	ug/l #	30
32) 1,1,1-Trichloroethane	7.53	97	310208	32.960	ug/l	99
36) 1,1-Dichloropropene	7.62	75	39746	4.725	ug/l #	52
37) Ethyl Acetate	6.78	43	412646	49.867	ug/l #	71
38) Carbon Tetrachloride	7.74	117	386770	46.721	ug/l	98
39) Methylcyclohexane	9.08	83	3433	0.374	ug/l #	31
40) Benzene	8.00	78	845856	35.209	ug/l	98
42) 1,2-Dichloroethane	8.00	62	8283	0.909	ug/l	80
44) Trichloroethene	8.80	130	412863	65.714	ug/l	100
45) 1,2-Dichloropropane	9.08	63	413122	62.693	ug/l	99
46) Dibromomethane	9.37	93	11326	2.651	ug/l #	7
47) Bromodichloromethane	9.37	83	375778	42.198	ug/l	97
48) Methyl methacrylate	9.09	41	247033	36.944	ug/l #	38
49) 1,4-Dioxane	9.35	88	109	1.053	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	1457375	188.707	ug/l	99
52) Toluene	10.13	92	705478	48.097	ug/l	100
53) t-1,3-Dichloropropene	10.35	75	228369	23.517	ug/l	99
54) cis-1,3-Dichloropropene	9.81	75	601921	57.570	ug/l	98

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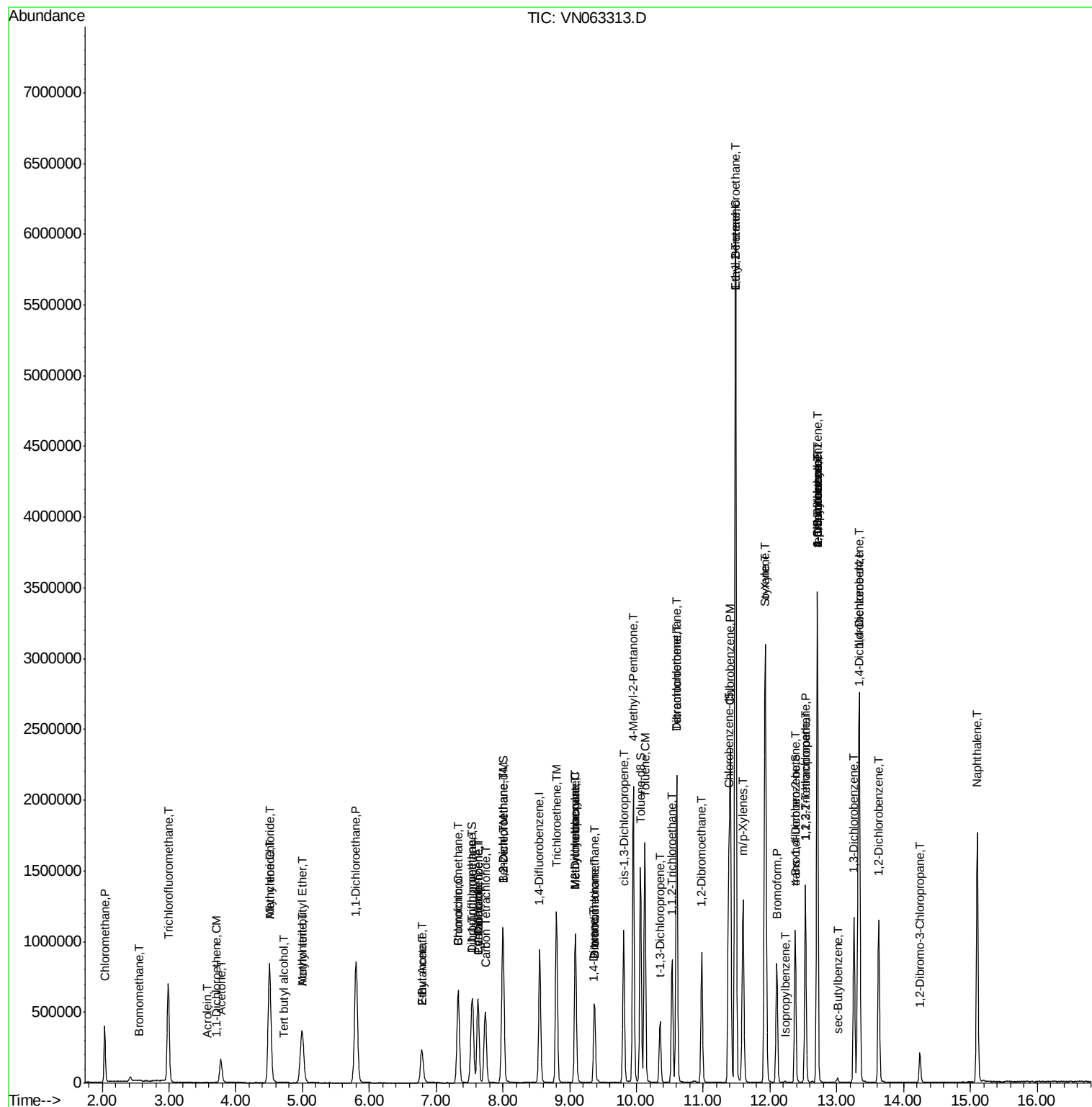
55) 1,1,2-Trichloroethane	10.53	97	262028	45.589	uq/l	99
60) Dibromochloromethane	10.60	129	446972	70.818	uq/l #	11
61) 1,2-Dibromoethane	10.98	107	621060	103.650	uq/l	99
64) Tetrachloroethene	10.60	164	451036	74.867	uq/l	98
65) Chlorobenzene	11.41	112	1153693	72.869	uq/l	99
66) 1,1,1,2-Tetrachloroethane	11.48	131	670118	116.171	uq/l	99
67) Ethyl Benzene	11.49	91	2671627	93.995	uq/l	97
68) m/p-Xylenes	11.59	106	412034	39.190	uq/l	99
69) o-Xylene	11.92	106	634535	62.889	uq/l	100
70) Styrene	11.94	104	787683	46.971	uq/l	96
71) Bromoform	12.10	173	368048	92.248	uq/l #	99
73) Isopropylbenzene	12.23	105	5495	0.206	uq/l	97
75) 1,1,2,2-Tetrachloroethane	12.53	83	15937	2.085	uq/l #	95
76) 1,2,3-Trichloropropane	12.53	75	562081	76.995	uq/l #	100
78) n-propylbenzene	12.71	91	206998	6.827	uq/l #	1
79) 2-Chlorotoluene	12.71	91	206998	11.103	uq/l #	42
80) 1,3,5-Trimethylbenzene	12.71	105	1841556	83.094	uq/l	99
81) trans-1,4-Dichloro-2-buten	12.38	75	198364	73.007	uq/l #	9
82) 4-Chlorotoluene	12.71	91	206998	10.592	uq/l #	43
83) tert-Butylbenzene	12.71	119	226562	12.054	uq/l #	68
85) sec-Butylbenzene	13.02	105	11373	0.476	uq/l #	62
87) 1,3-Dichlorobenzene	13.26	146	454288	40.503	uq/l	99
88) 1,4-Dichlorobenzene	13.34	146	956081	89.955	uq/l	99
91) 1,2-Dichlorobenzene	13.63	146	446749	40.300	uq/l	100
92) 1,2-Dibromo-3-Chloropropan	14.24	75	53549	30.806	uq/l	98
95) Naphthalene	15.10	128	1464873	75.373	uq/l	99
96) 1,2,3-Trichlorobenzene	15.28	180	273	Below Cal	#	12

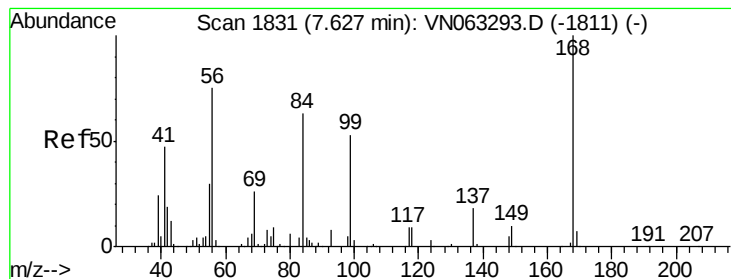
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

Instrument :

MSVOA_N

ClientSampleId :

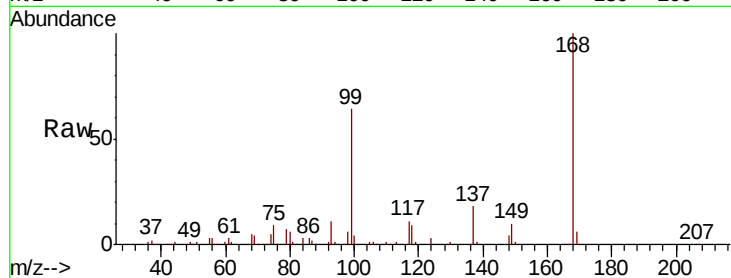
PT-VOA-WP

Tot Ion:168 Resp: 449767

Ion Ratio Lower Upper

168 100

99 63.9 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

200000

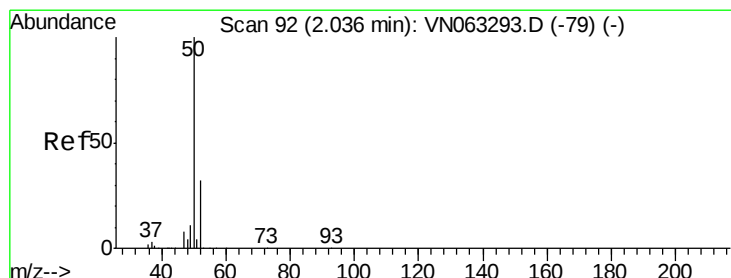
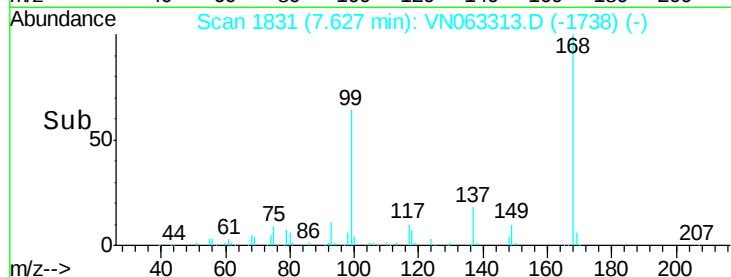
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 63.295 ug/l

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063313.D

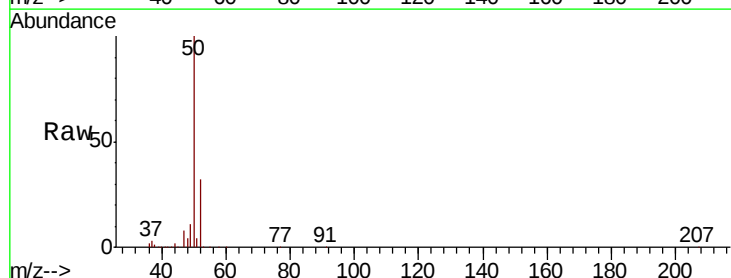
Acq: 11 Sep 2020 14:42

Tgt Ion: 50 Resp: 354301

Ion Ratio Lower Upper

50 100

52 32.4 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

250000

200000

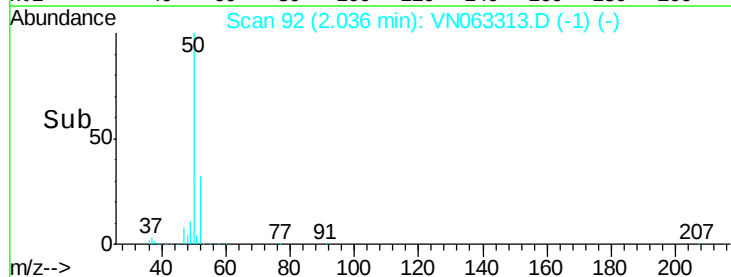
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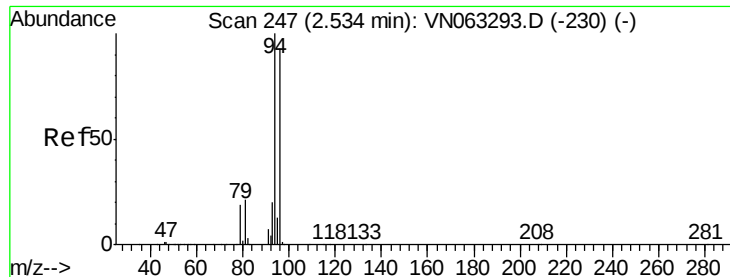
100000

50000

0

Time--> 1.95 2.00 2.05 2.10





#5

Bromomethane

Concen: 0.726 ug/l

RT: 2.55 min Scan# 251

Delta R.T. 0.01 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

Instrument :

MSVOA_N

ClientSampled :

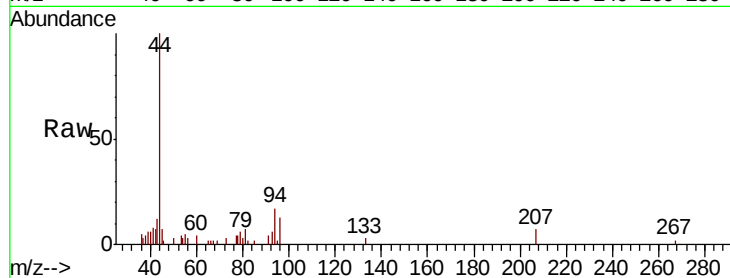
PT-VOA-WP

Tot Ion: 94 Resp: 3095

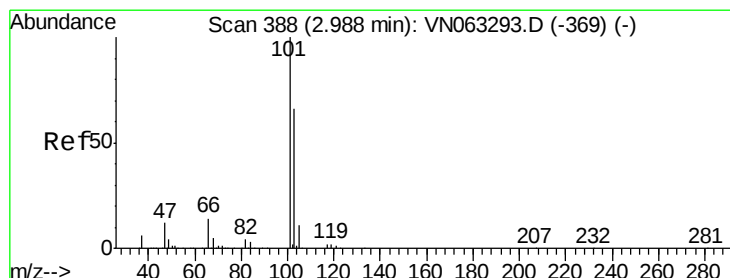
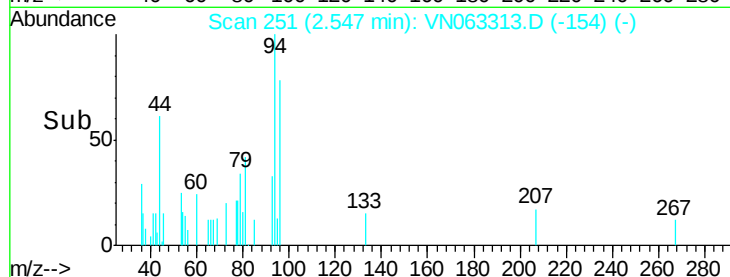
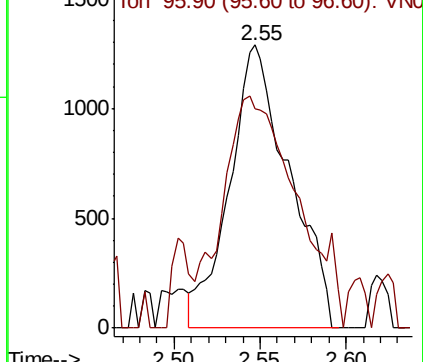
Ion Ratio Lower Upper

94 100

96 63.7 74.3 111.5#



Abundance Ion 93.90 (93.60 to 94.60): VN063313.D (-251) (-)



#7

Trichlorofluoromethane

Concen: 69.696 ug/l

RT: 2.99 min Scan# 388

Delta R.T. -0.00 min

Lab File: VN063313.D

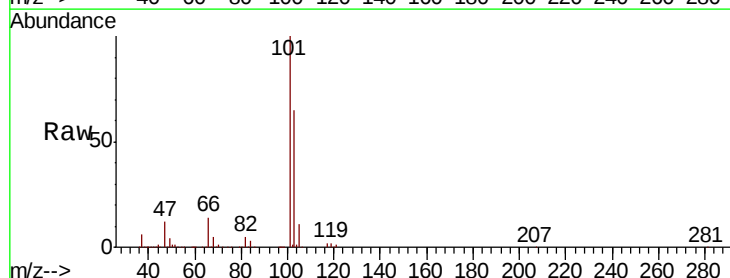
Acq: 11 Sep 2020 14:42

Tgt Ion: 101 Resp: 658667

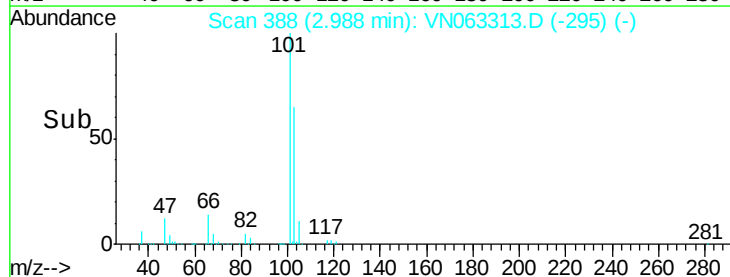
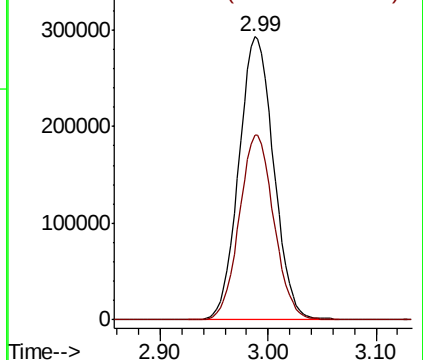
Ion Ratio Lower Upper

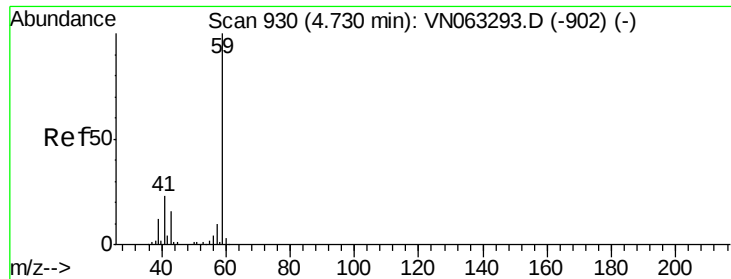
101 100

103 65.3 52.4 78.6



Abundance Ion 100.90 (100.60 to 101.60): VN063313.D (-388) (-)

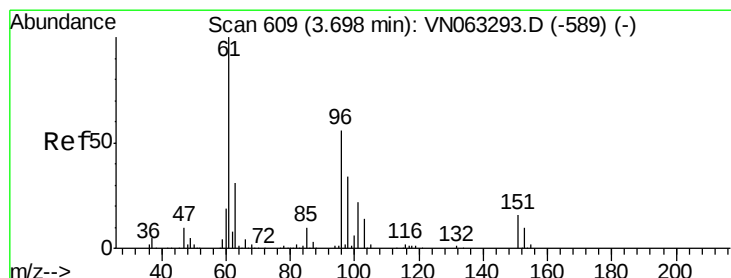
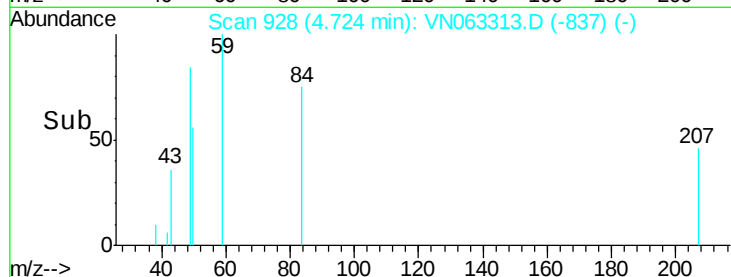
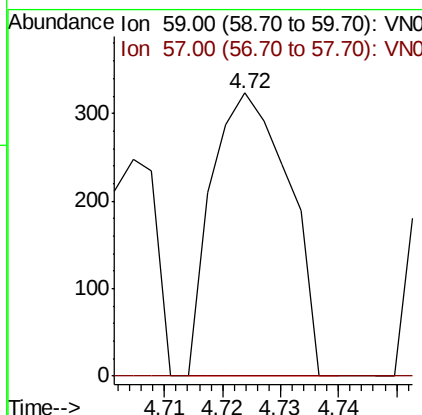
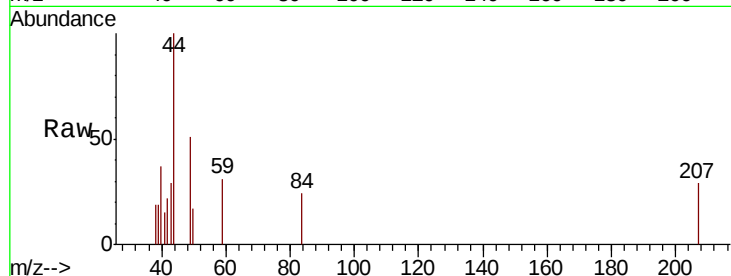




#11
Tert butyl alcohol
Concen: 0.318 ug/l
RT: 4.72 min Scan# 928
Delta R.T. -0.01 min
Lab File: VN063313.D
Acq: 11 Sep 2020 14:42

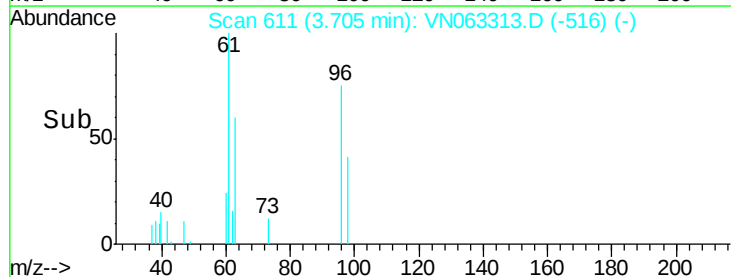
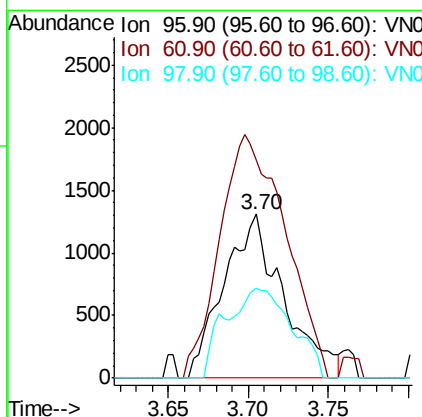
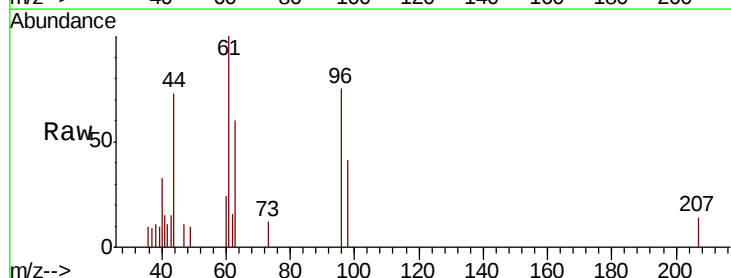
Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WP

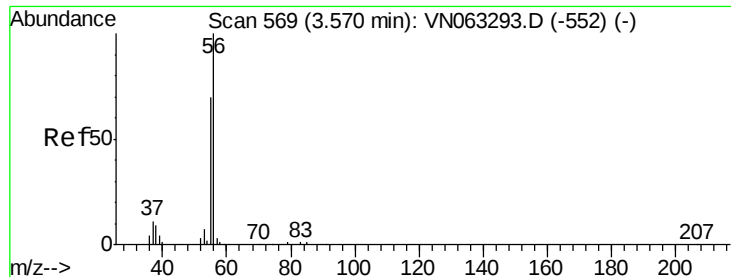
Tot Ion: 59 Resp: 297
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#12
1,1-Dichloroethene
Concen: 0.681 ug/l
RT: 3.70 min Scan# 611
Delta R.T. 0.01 min
Lab File: VN063313.D
Acq: 11 Sep 2020 14:42

Tgt Ion: 96 Resp: 3358
Ion Ratio Lower Upper
96 100
61 132.6 142.1 213.1#
98 54.7 48.8 73.2





#13

Acrolein

Concen: 32.719 ug/l

RT: 3.57 min Scan# 568

Delta R.T. -0.00 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

Instrument :

MSVOA_N

ClientSampled :

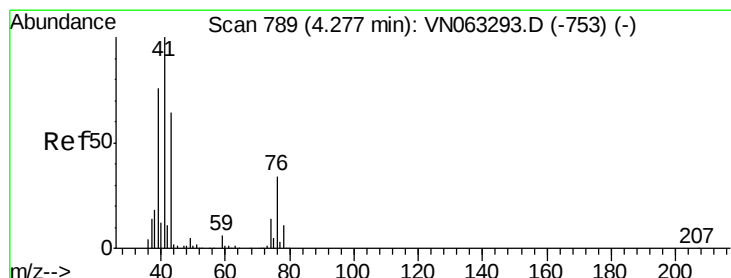
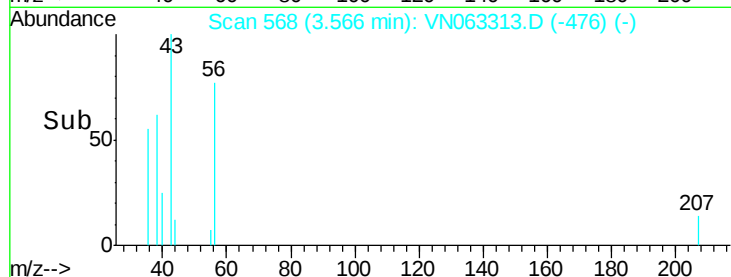
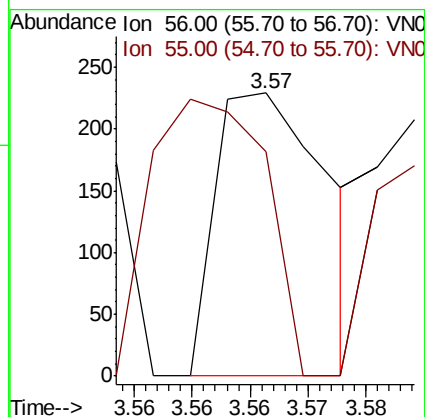
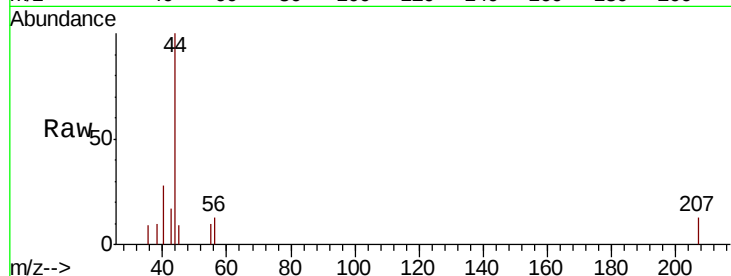
PT-VOA-WP

Tot Ion: 56 Resp: 153

Ion Ratio Lower Upper

56 100

55 101.3 57.2 85.8#



#14

Allyl chloride

Concen: 2.490 ug/l

RT: 4.51 min Scan# 861

Delta R.T. 0.23 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

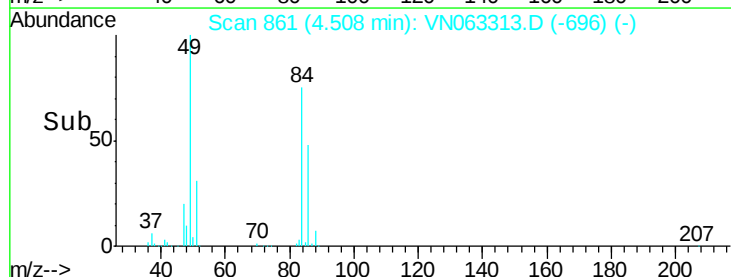
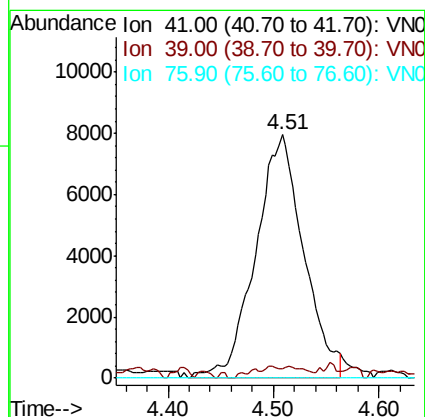
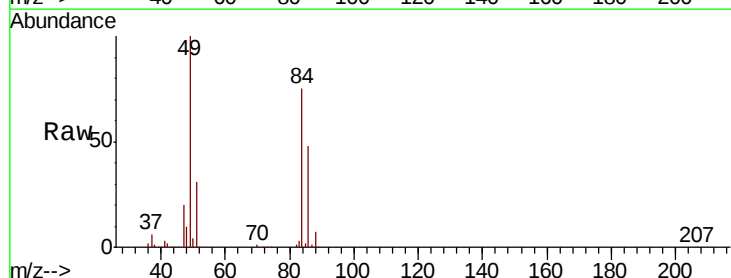
Tgt Ion: 41 Resp: 25194

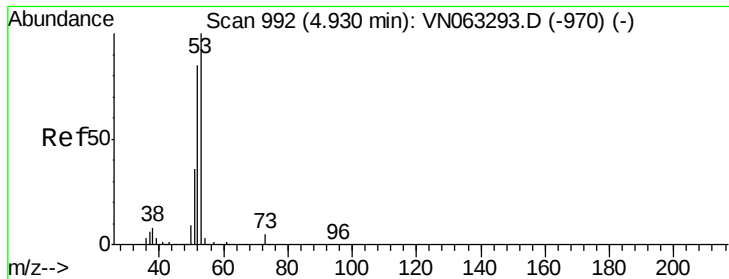
Ion Ratio Lower Upper

41 100

39 0.9 57.4 86.2#

76 0.0 25.7 38.5#





#15

Acrylonitrile

Concen: 2.783 ug/l

RT: 4.99 min Scan# 1011

Delta R.T. 0.06 min

Lab File: VN063313.D

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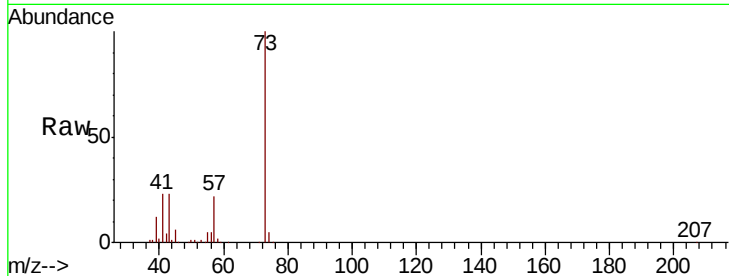
Tot Ion: 53 Resp: 7109

Ion Ratio Lower Upper

53 100

52 12.6 66.5 99.7#

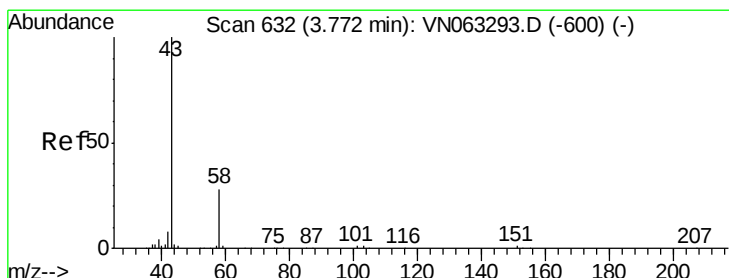
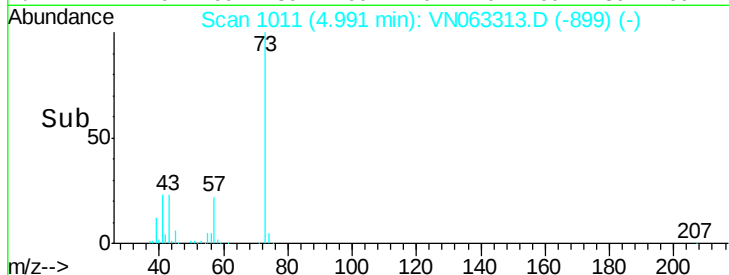
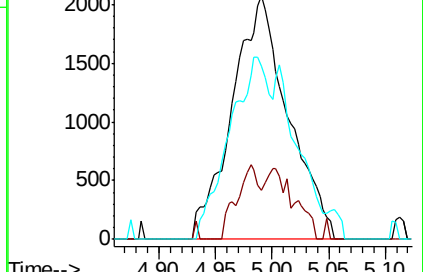
51 54.2 29.8 44.6#



Abundance Ion 53.00 (52.70 to 53.70): VN063313.D (-970) (-)

Ion 52.00 (51.70 to 52.70): VN063313.D (-970) (-)

Ion 51.00 (50.70 to 51.70): VN063313.D (-970) (-)



#16

Acetone

Concen: 113.837 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN063313.D

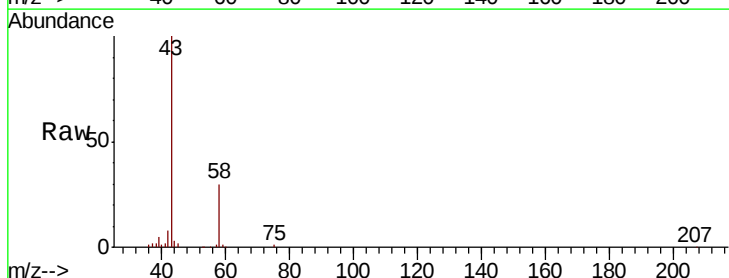
Acq: 11 Sep 2020 14:42

Tgt Ion: 43 Resp: 277771

Ion Ratio Lower Upper

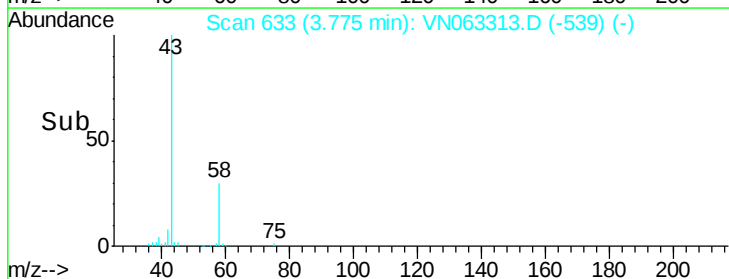
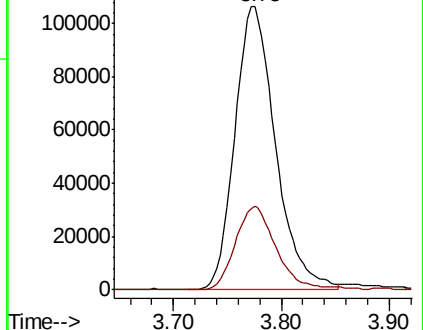
43 100

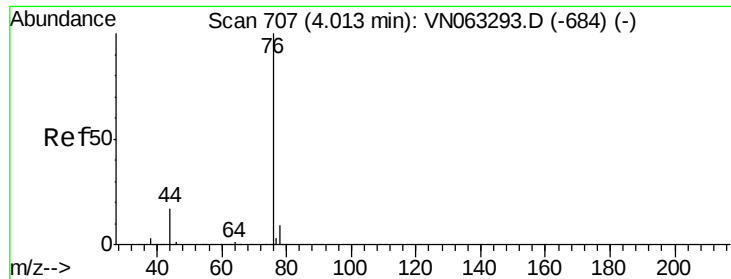
58 29.6 22.6 34.0



Abundance Ion 43.00 (42.70 to 43.70): VN063313.D (-539) (-)

Ion 58.00 (57.70 to 58.70): VN063313.D (-539) (-)





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.01 min Scan# 706

Delta R.T. -0.00 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

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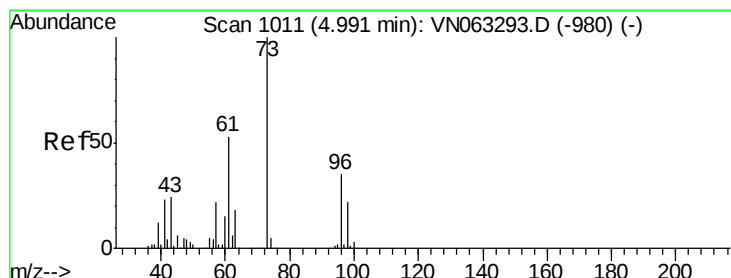
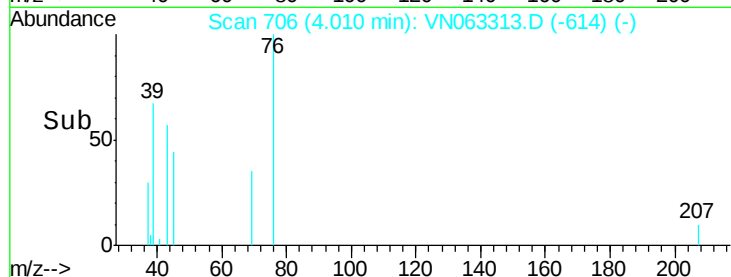
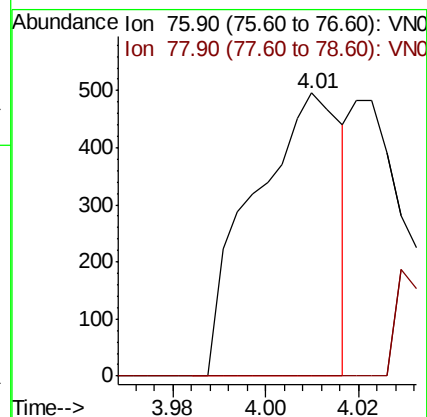
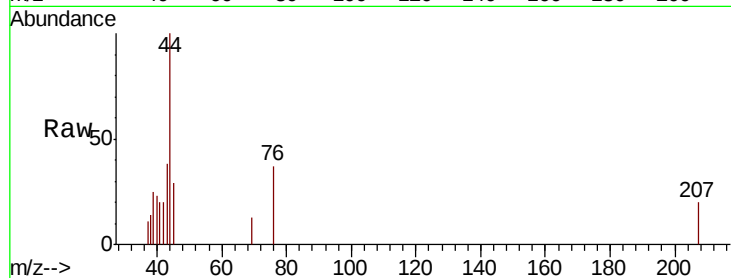
PT-VOA-WP

Tot Ion: 76 Resp: 655

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



#19

Methyl tert-butyl Ether

Concen: 36.311 ug/l

RT: 4.99 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VN063313.D

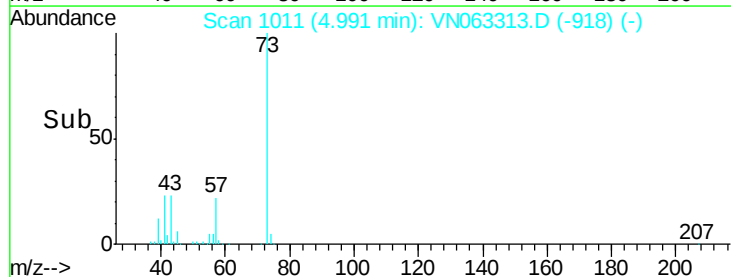
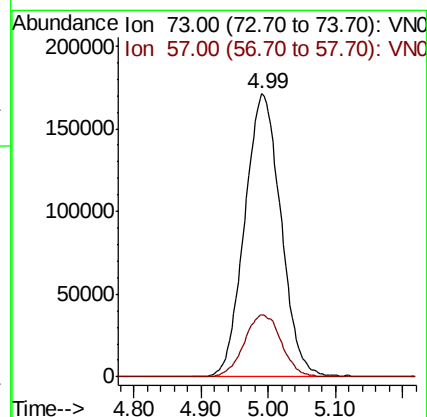
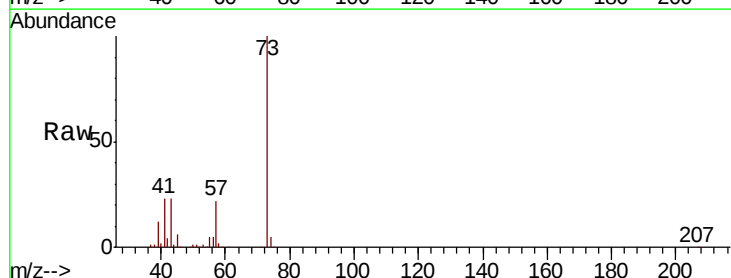
Acq: 11 Sep 2020 14:42

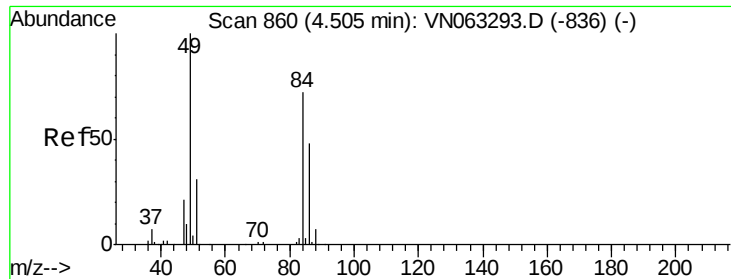
Tgt Ion: 73 Resp: 639485

Ion Ratio Lower Upper

73 100

57 22.1 17.5 26.3

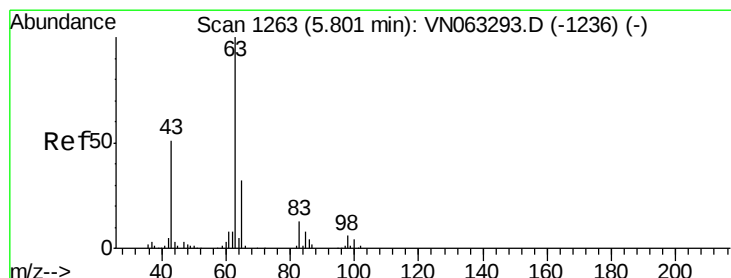
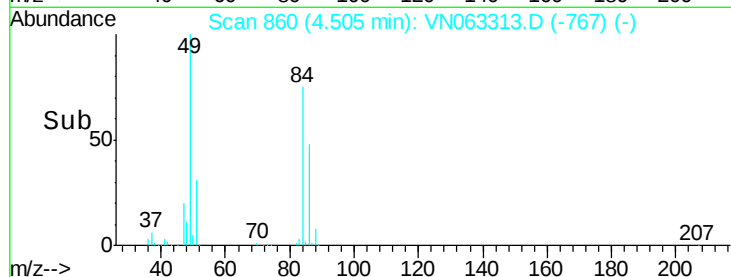
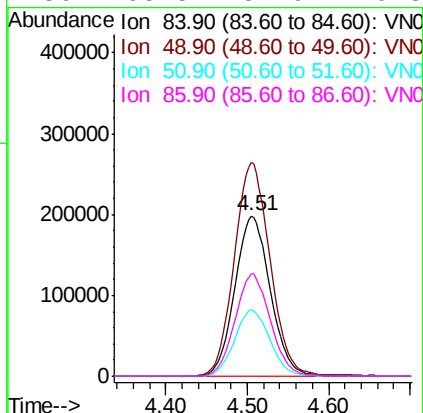
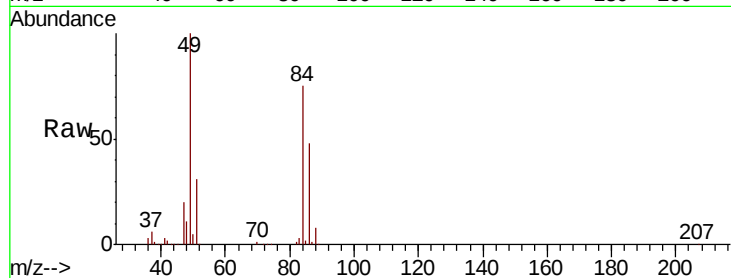




#20
Methvlene Chloride
Concen: 108.941 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063313.D
Acq: 11 Sep 2020 14:42

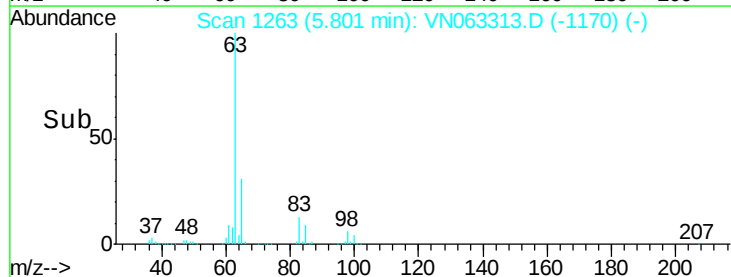
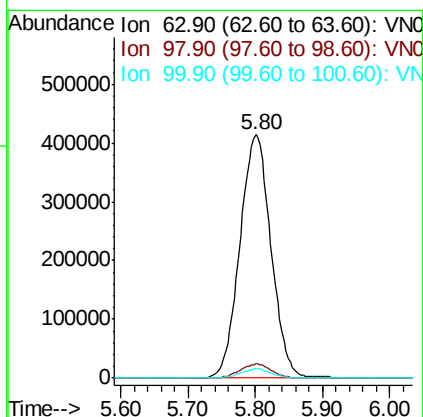
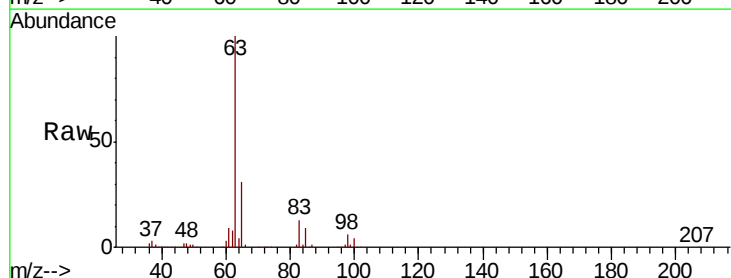
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

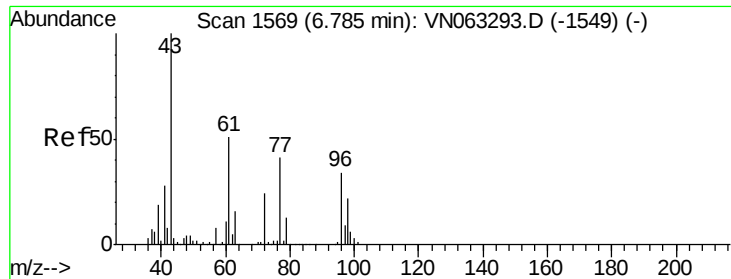
Tot Ion:	84	Resp:	596861
Ion	Ratio	Lower	Upper
84	100		
49	133.0	111.1	166.7
51	41.3	34.3	51.5
86	63.5	52.9	79.3



#24
1,1-Dichloroethane
Concen: 123.429 ug/l
RT: 5.80 min Scan# 1263
Delta R.T. -0.00 min
Lab File: VN063313.D
Acq: 11 Sep 2020 14:42

Tgt Ion:	63	Resp:	1330915
Ion	Ratio	Lower	Upper
63	100		
98	5.7	3.1	9.3
100	3.9	2.0	6.0





#25

2-Butanone

Concen: 114.483 ug/l

RT: 6.78 min Scan# 1569

Delta R.T. -0.00 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

Instrument :

MSVOA_N

ClientSampleId :

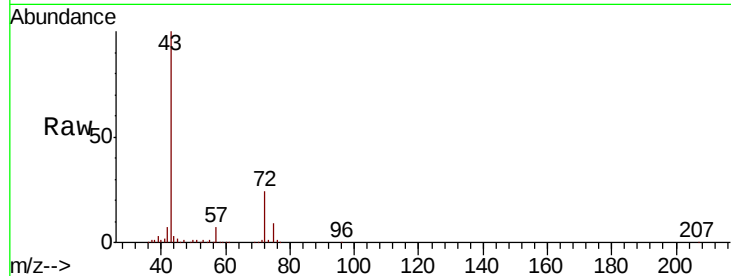
PT-VOA-WP

Tot Ion: 43 Resp: 412646

Ion Ratio Lower Upper

43 100

72 24.0 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.78

150000

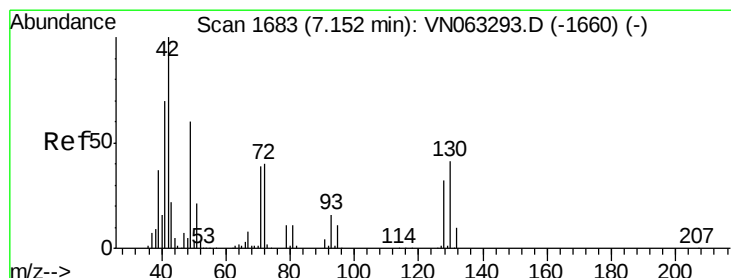
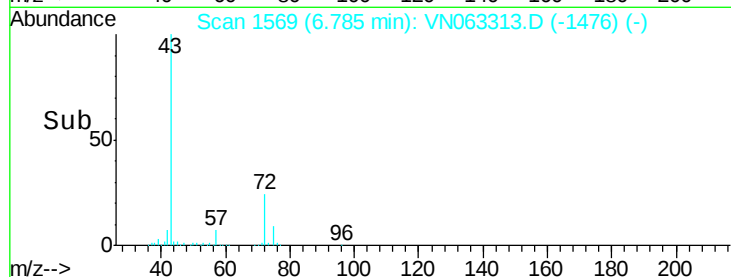
100000

50000

0

Time-->

6.70 6.80 6.90



#28

Bromochloromethane

Concen: 11.624 ug/l

RT: 7.33 min Scan# 1739

Delta R.T. 0.18 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

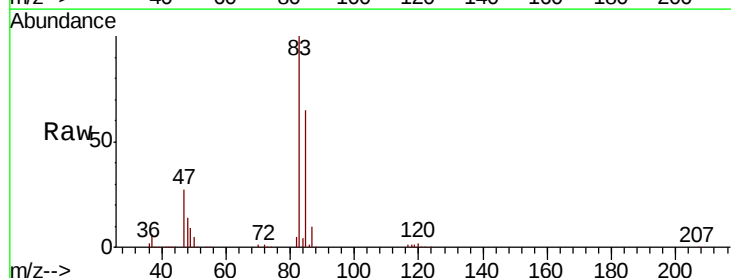
Tgt Ion: 49 Resp: 60777

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.4

130 0.0 53.1 79.7#



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

7.33

30000

25000

20000

15000

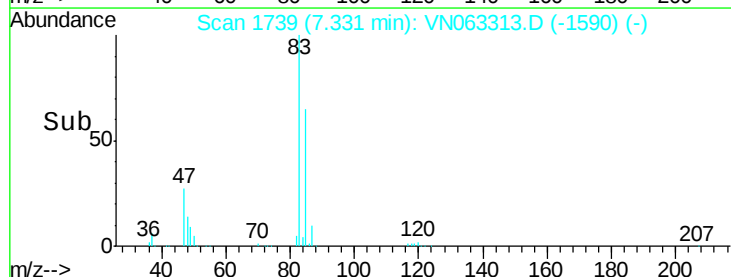
10000

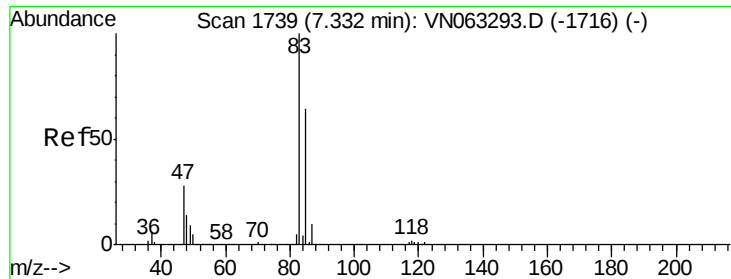
5000

0

Time-->

7.25 7.30 7.35 7.40

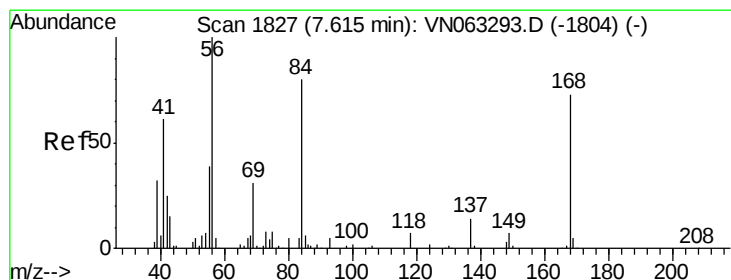
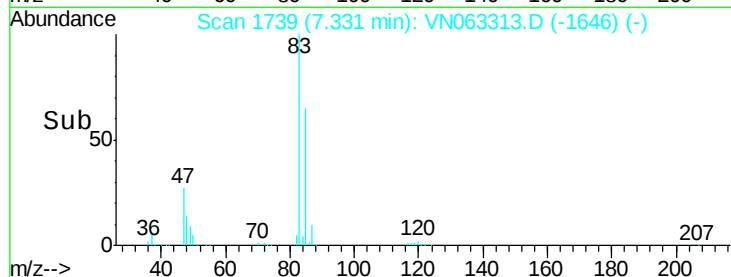
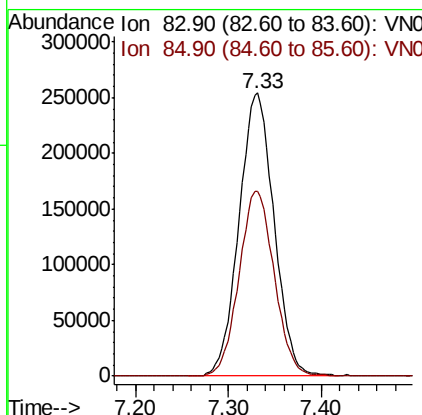
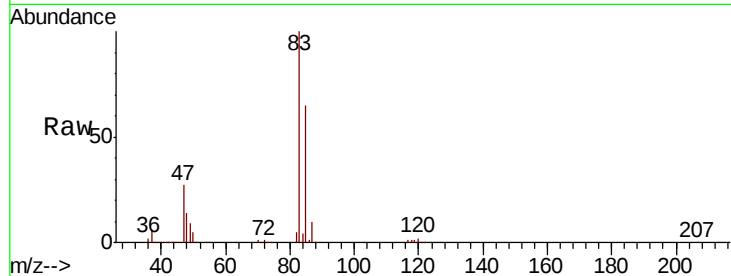




#30
Chloroform
Concen: 61.780 ug/l
RT: 7.33 min Scan# 1739
Delta R.T. -0.00 min
Lab File: VN063313.D
Acq: 11 Sep 2020 14:42

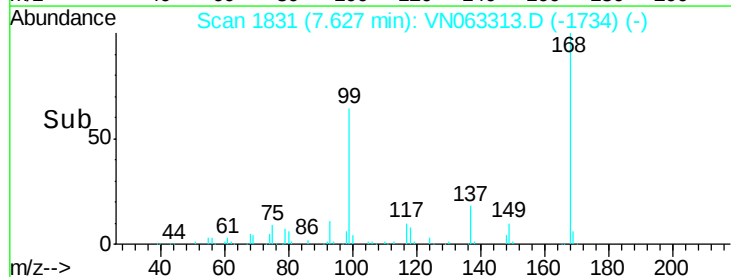
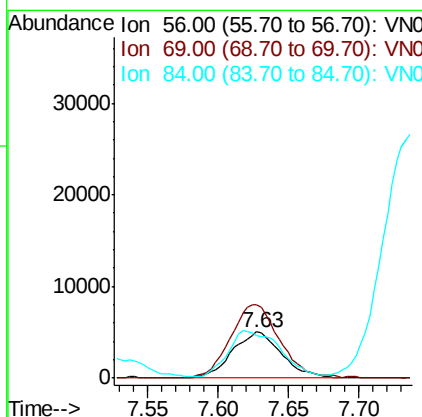
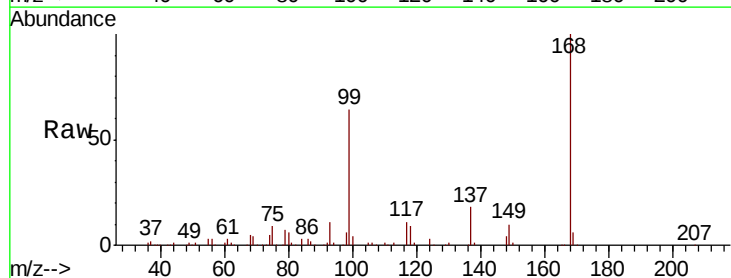
Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WP

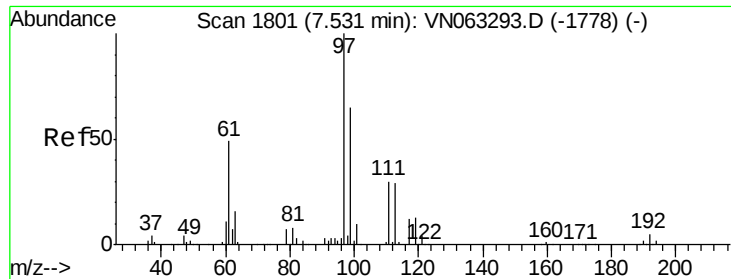
Tot Ion: 83 Resp: 666999
Ion Ratio Lower Upper
83 100
85 65.3 51.2 76.8



#31
Cyclohexane
Concen: 1.239 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN063313.D
Acq: 11 Sep 2020 14:42

Tgt Ion: 56 Resp: 12281
Ion Ratio Lower Upper
56 100
69 158.7 25.1 37.7#
84 87.2 64.2 96.2





#32

1,1,1-Trichloroethane

Concen: 32.960 ug/l

RT: 7.53 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WP

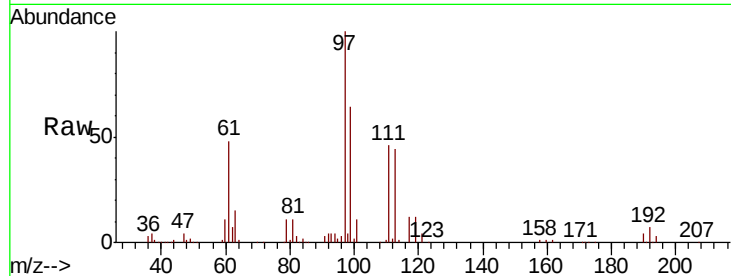
Tot Ion: 97 Resp: 310208

Ion Ratio Lower Upper

97 100

99 63.9 51.4 77.2

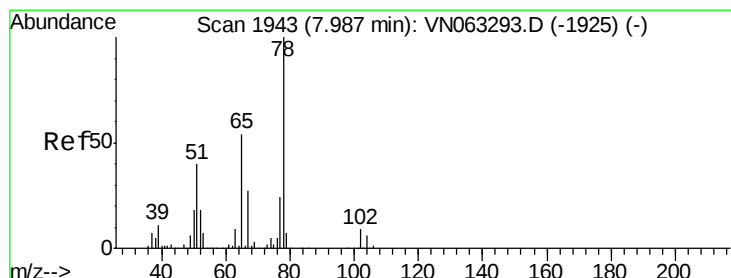
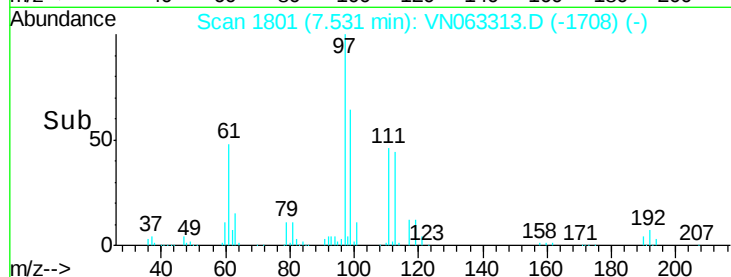
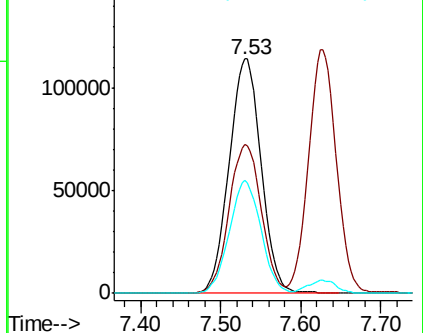
61 47.5 38.9 58.3



Abundance Ion 96.90 (96.60 to 97.60): VN063313.D (-1778) (-)

Ion 98.90 (98.60 to 99.60): VN063313.D (-1778) (-)

Ion 60.90 (60.60 to 61.60): VN063313.D (-1778) (-)



#33

1,2-Dichloroethane-d4

Concen: 50.885 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN063313.D

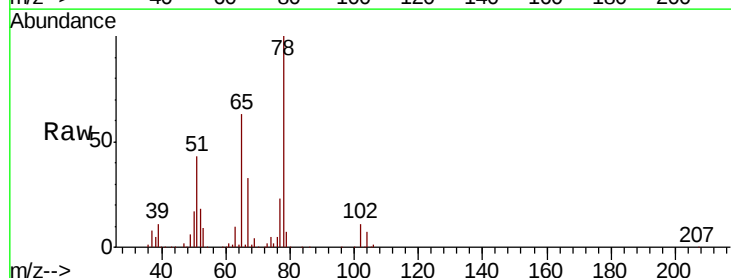
Acq: 11 Sep 2020 14:42

Tgt Ion: 65 Resp: 359577

Ion Ratio Lower Upper

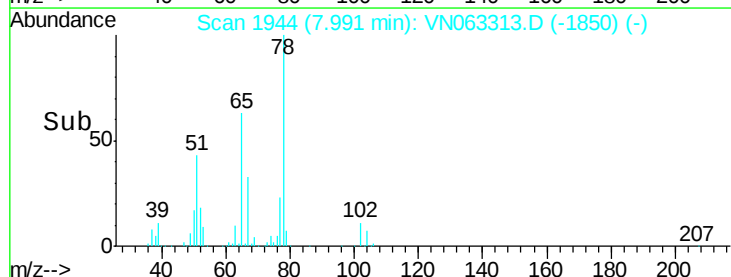
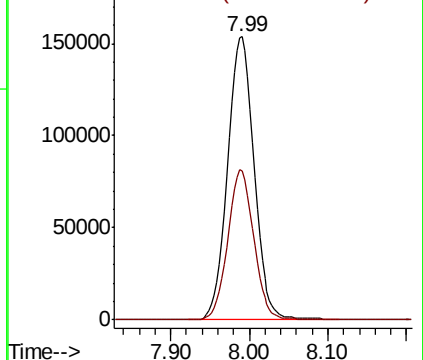
65 100

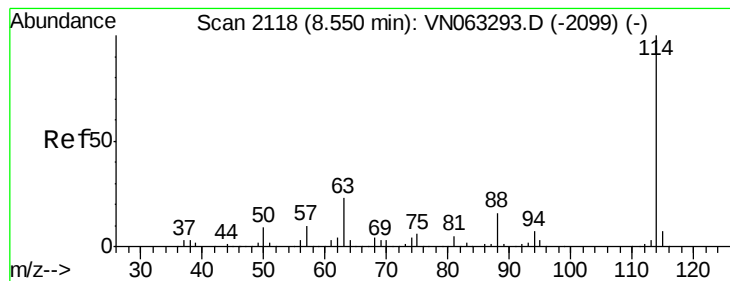
67 51.6 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN063313.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN063313.D (-1850) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WP

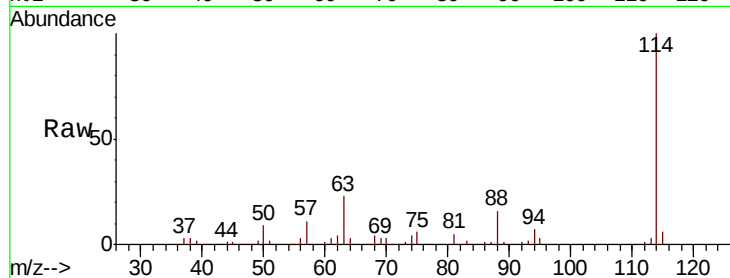
Tot Ion:114 Resp: 818299

Ion Ratio Lower Upper

114 100

63 22.6 0.0 46.0

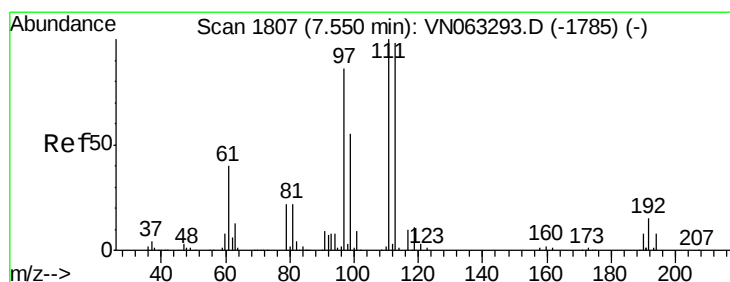
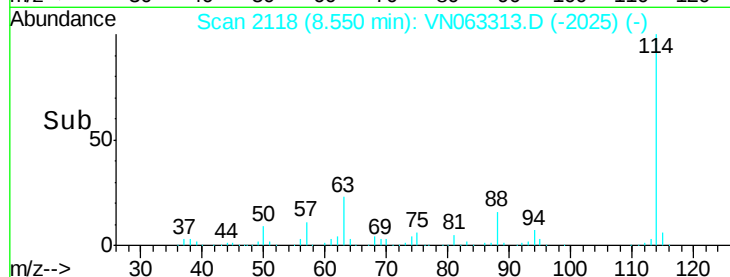
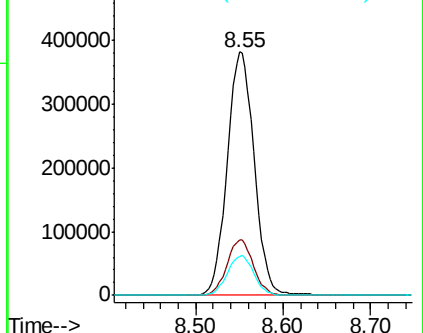
88 16.1 0.0 32.8



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: 49.570 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. -0.00 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

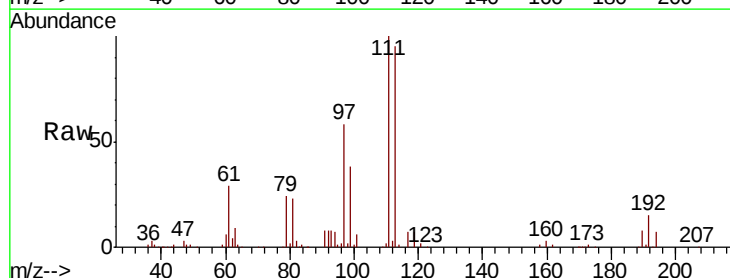
Tgt Ion:113 Resp: 261681

Ion Ratio Lower Upper

113 100

111 103.8 82.2 123.2

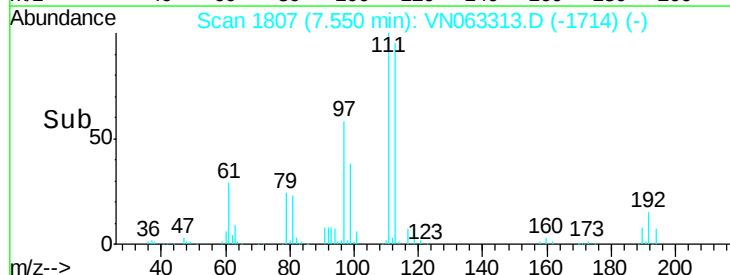
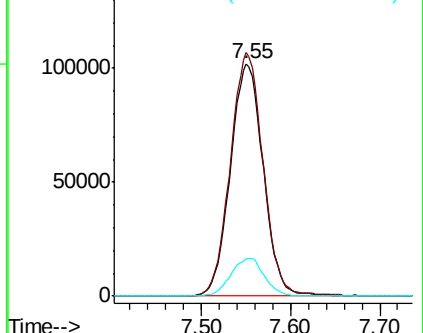
192 16.6 12.9 19.3

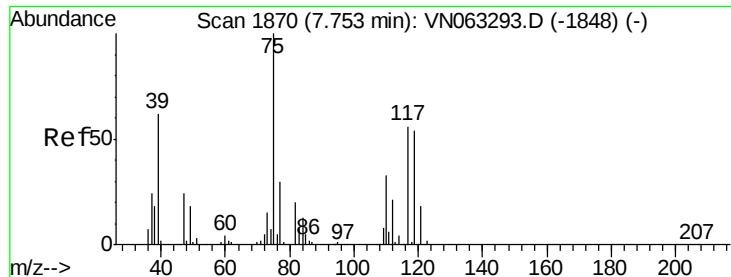


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

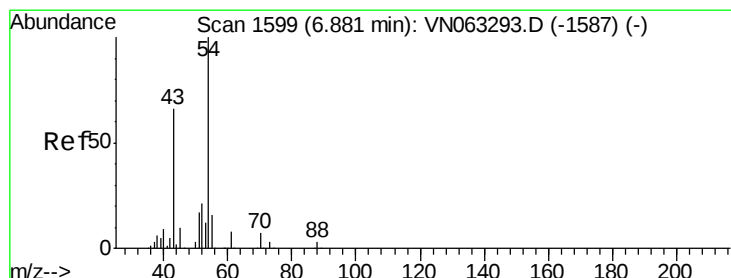
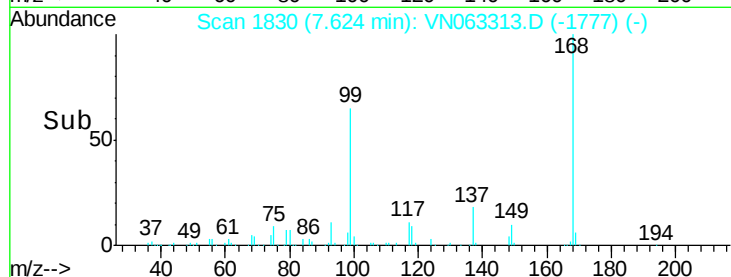
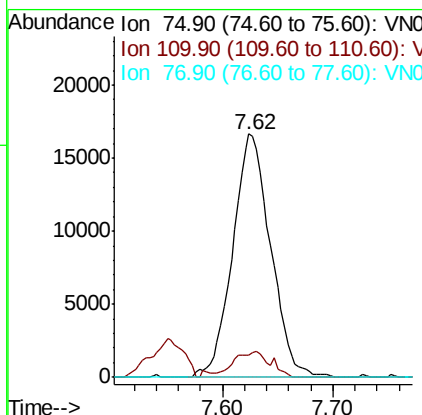
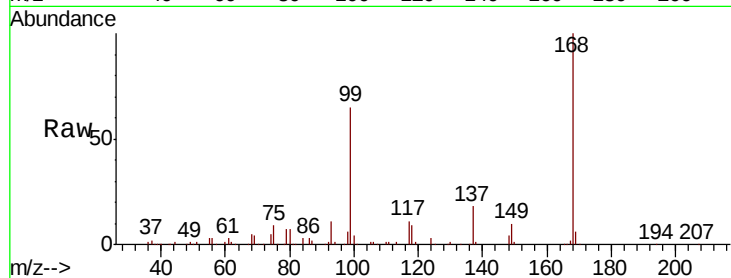




#36
 1,1-Dichloropropene
 Concen: 4.725 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063313.D
 Acq: 11 Sep 2020 14:42

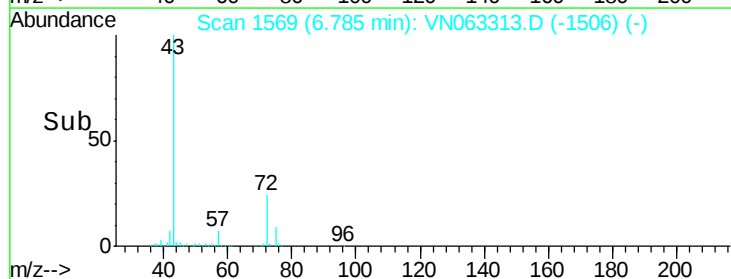
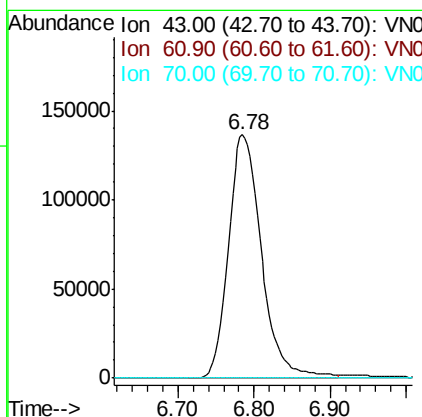
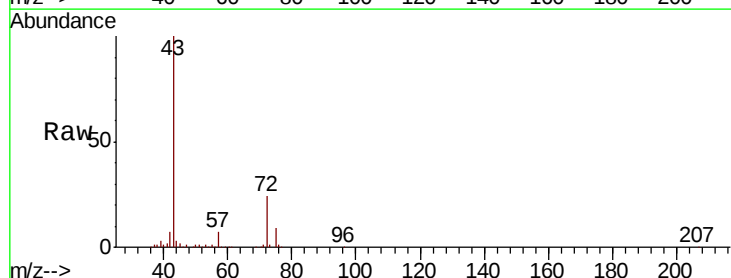
Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

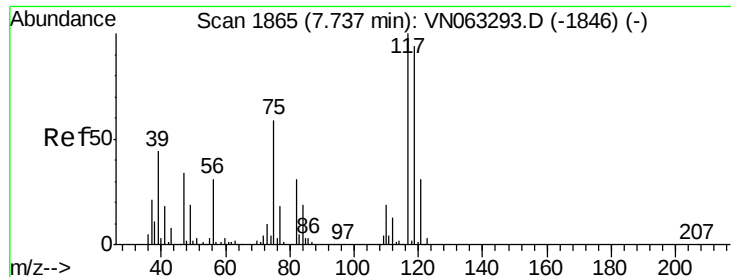
Tot Ion: 75 Resp: 39746
 Ion Ratio Lower Upper
 75 100
 110 10.3 16.4 49.4#
 77 0.0 24.8 37.2#



#37
 Ethyl Acetate
 Concen: 49.867 ug/l
 RT: 6.78 min Scan# 1569
 Delta R.T. -0.10 min
 Lab File: VN063313.D
 Acq: 11 Sep 2020 14:42

Tgt Ion: 43 Resp: 412646
 Ion Ratio Lower Upper
 43 100
 61 0.1 10.1 15.1#
 70 0.1 7.4 11.2#

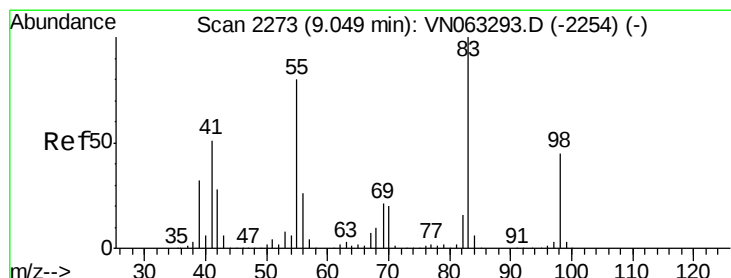
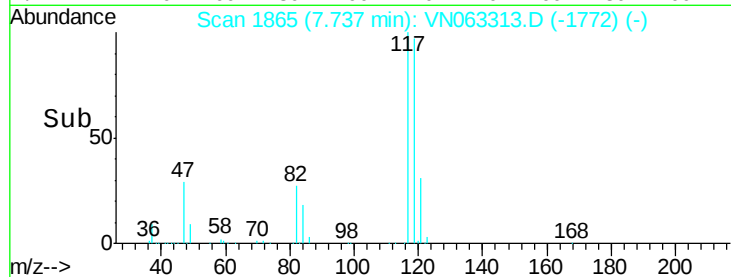
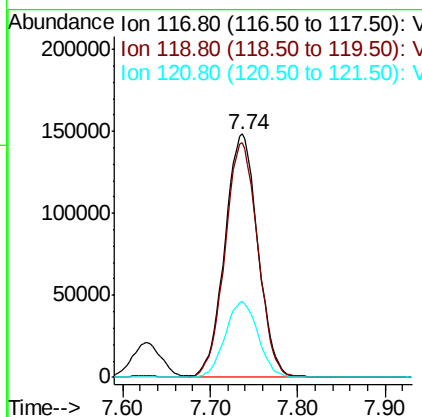
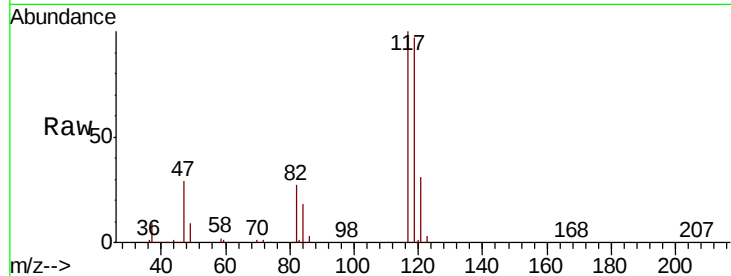




#38
Carbon Tetrachloride
Concen: 46.721 ug/l
RT: 7.74 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN063313.D
Acq: 11 Sep 2020 14:42

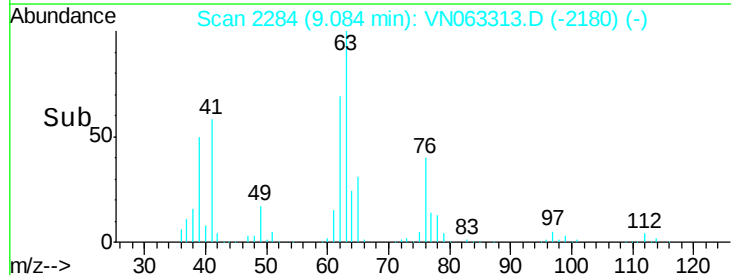
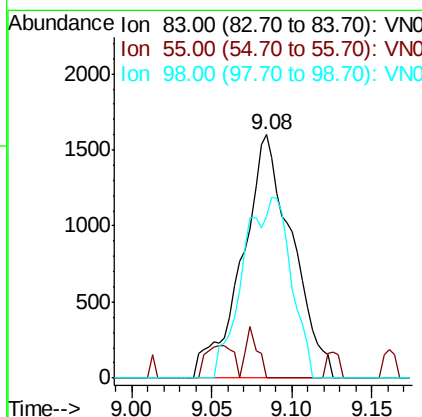
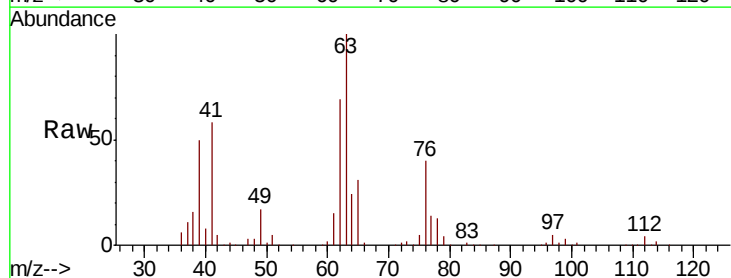
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

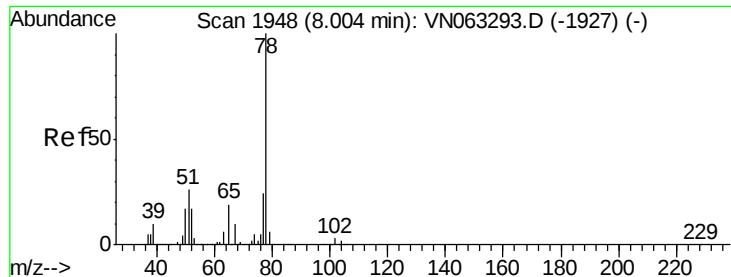
Tot Ion:117 Resp: 386770
Ion Ratio Lower Upper
117 100
119 96.6 75.3 112.9
121 31.1 24.6 37.0



#39
Methylcyclohexane
Concen: 0.374 ug/l
RT: 9.08 min Scan# 2284
Delta R.T. 0.04 min
Lab File: VN063313.D
Acq: 11 Sep 2020 14:42

Tgt Ion: 83 Resp: 3433
Ion Ratio Lower Upper
83 100
55 0.0 64.0 96.0#
98 66.6 36.4 54.6#





#40

Benzene

Concen: 35.209 ug/l

RT: 8.00 min Scan# 1948

Delta R.T. -0.00 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

Instrument :

MSVOA_N

ClientSampleId :

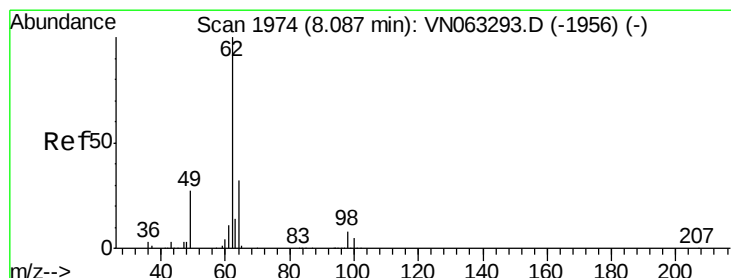
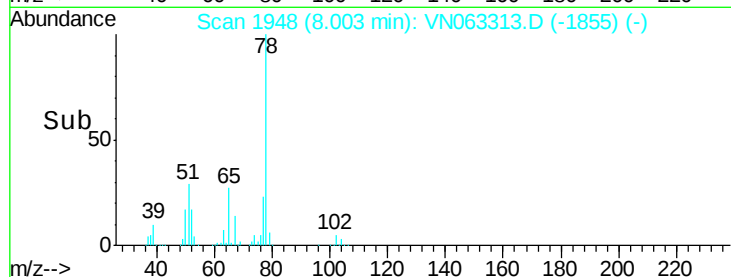
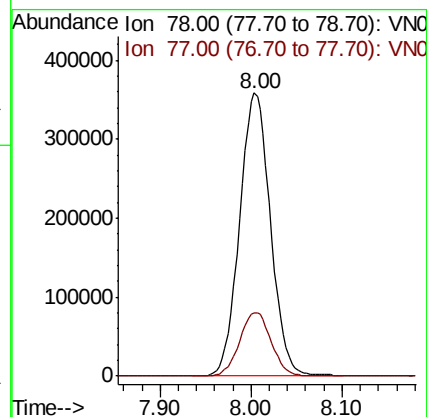
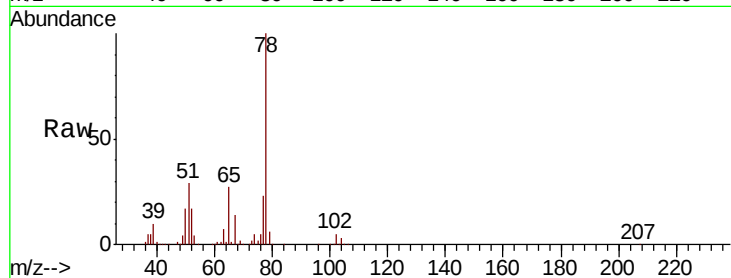
PT-VOA-WP

Tot Ion: 78 Resp: 845856

Ion Ratio Lower Upper

78 100

77 22.6 18.8 28.2



#42

1,2-Dichloroethane

Concen: 0.909 ug/l

RT: 8.00 min Scan# 1948

Delta R.T. -0.08 min

Lab File: VN063313.D

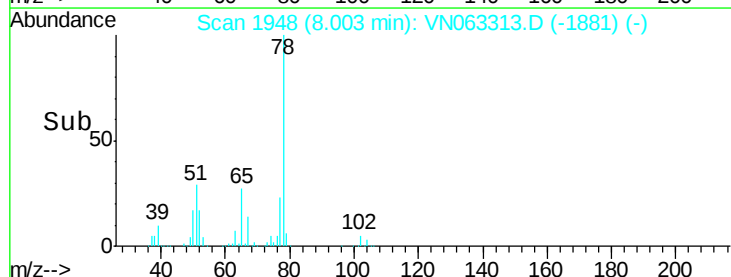
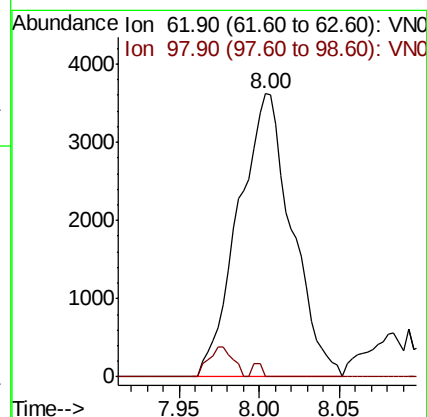
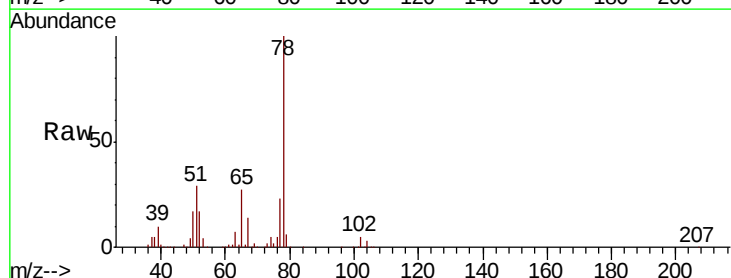
Acq: 11 Sep 2020 14:42

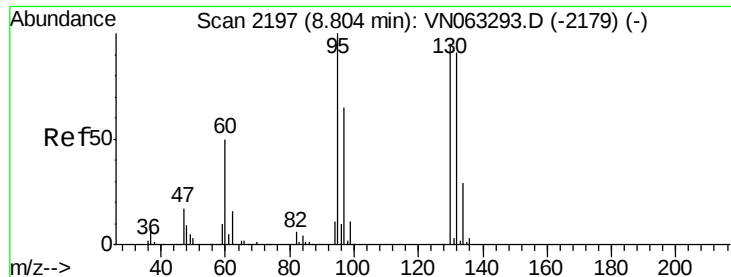
Tgt Ion: 62 Resp: 8283

Ion Ratio Lower Upper

62 100

98 0.8 0.0 15.4





#44

Trichloroethene

Concen: 65.714 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

Instrument :

MSVOA_N

ClientSampleId :

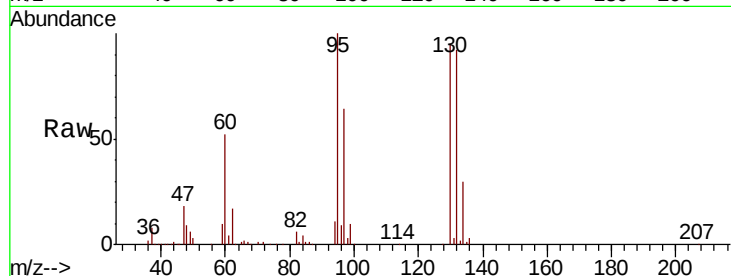
PT-VOA-WP

Tot Ion:130 Resp: 412863

Ion Ratio Lower Upper

130 100

95 105.4 0.0 210.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0

8.80

200000

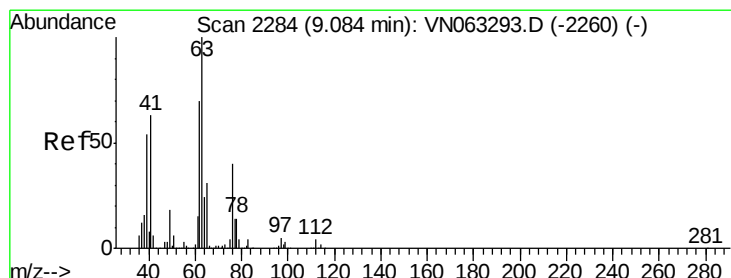
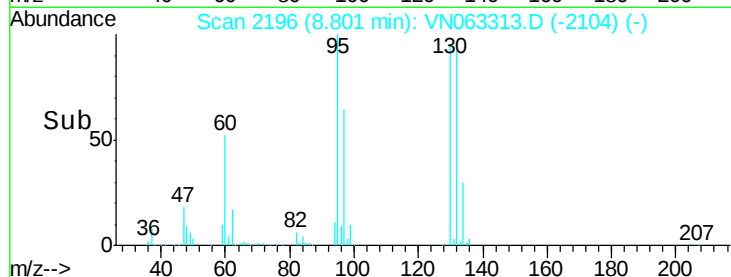
150000

100000

50000

0

Time-->



#45

1,2-Dichloropropane

Concen: 62.693 ug/l

RT: 9.08 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN063313.D

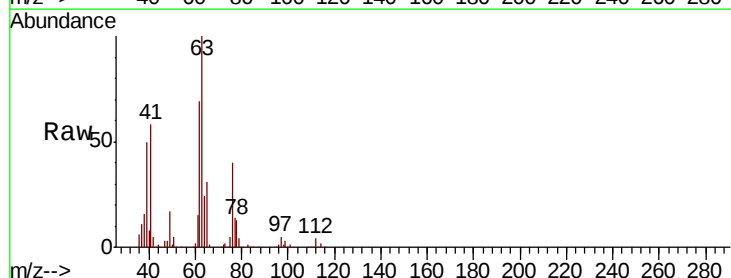
Acq: 11 Sep 2020 14:42

Tgt Ion: 63 Resp: 413122

Ion Ratio Lower Upper

63 100

65 31.0 24.6 36.8



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.08

200000

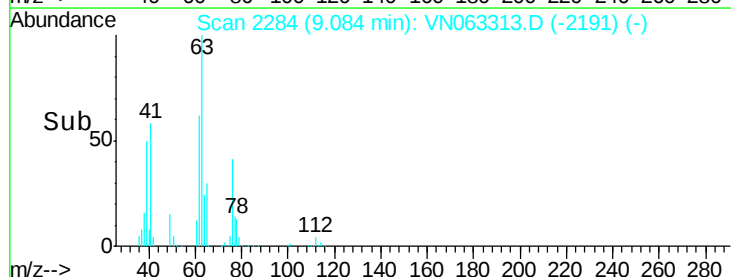
150000

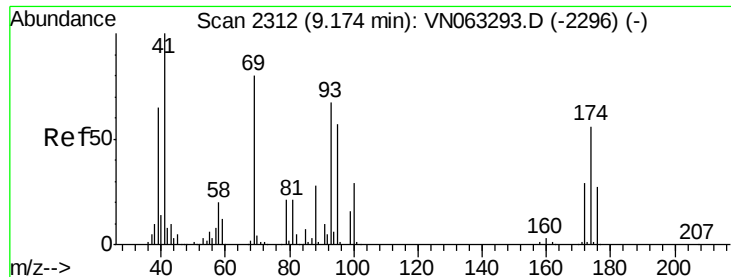
100000

50000

0

Time-->

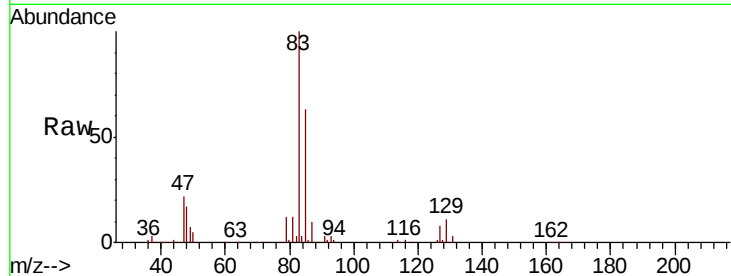




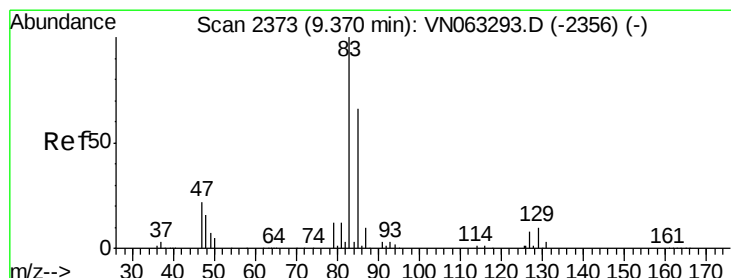
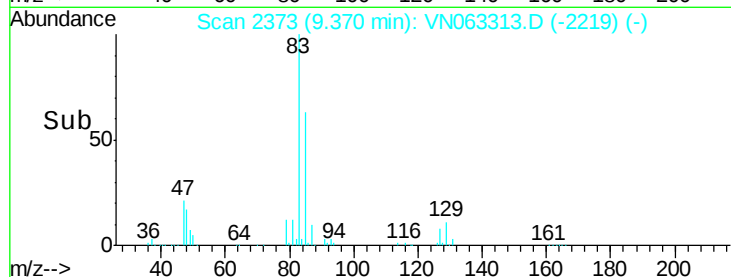
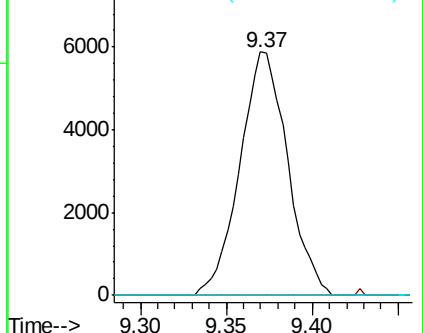
#46
Dibromomethane
Concen: 2.651 ug/l
RT: 9.37 min Scan# 2373
Delta R.T. 0.20 min
Lab File: VN063313.D
Acq: 11 Sep 2020 14:42

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

Tot Ion: 93 Resp: 11326
Ion Ratio Lower Upper
93 100
95 0.0 67.9 101.9#
174 0.0 66.9 100.3#

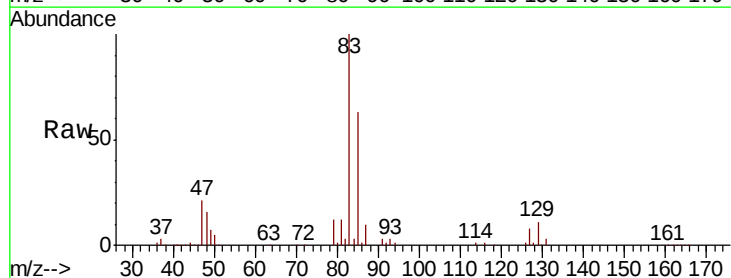


Abundance Ion 92.80 (92.50 to 93.50): VN0
Ion 94.80 (94.50 to 95.50): VN0
Ion 173.70 (173.40 to 174.40): V

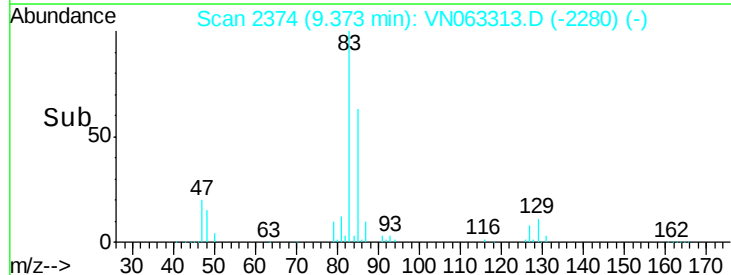
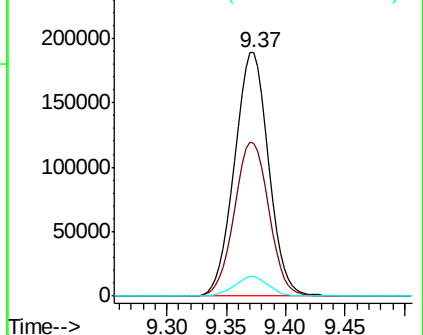


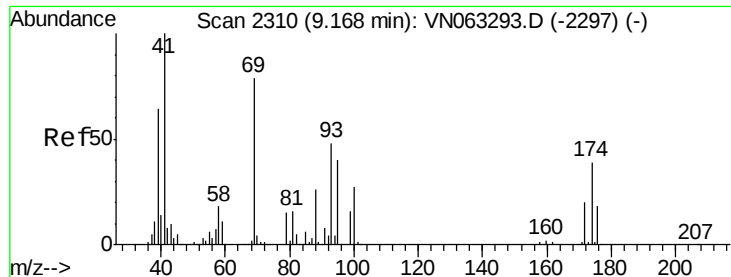
#47
Bromodichloromethane
Concen: 42.198 ug/l
RT: 9.37 min Scan# 2374
Delta R.T. 0.00 min
Lab File: VN063313.D
Acq: 11 Sep 2020 14:42

Tgt Ion: 83 Resp: 375778
Ion Ratio Lower Upper
83 100
85 62.8 52.5 78.7
127 8.3 6.6 10.0



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0
Ion 126.80 (126.50 to 127.50): V

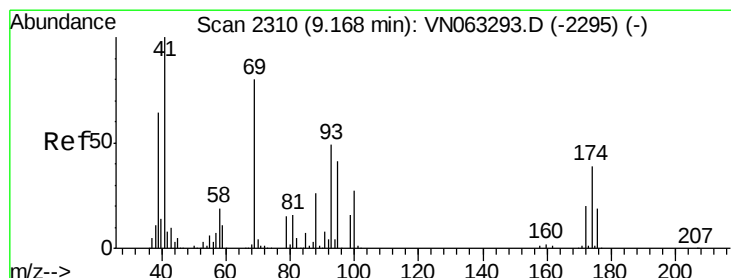
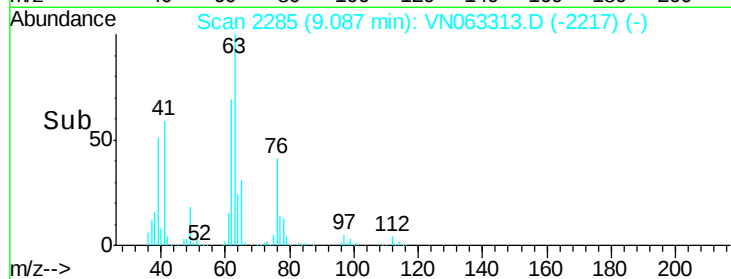
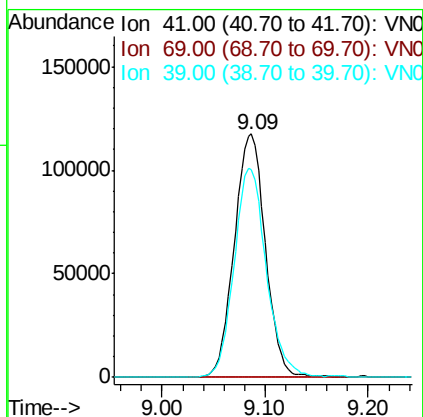
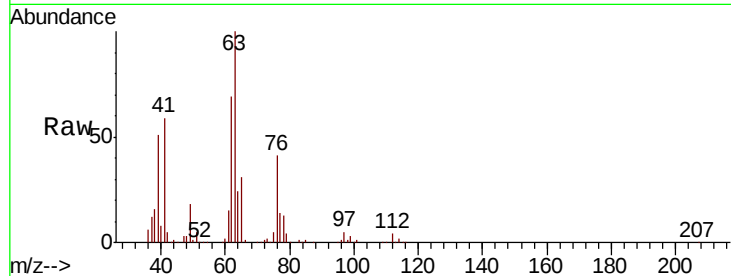




#48
Methvl methacrylate
Concen: 36.944 ug/l
RT: 9.09 min Scan# 2285
Delta R.T. -0.08 min
Lab File: VN063313.D
Acq: 11 Sep 2020 14:42

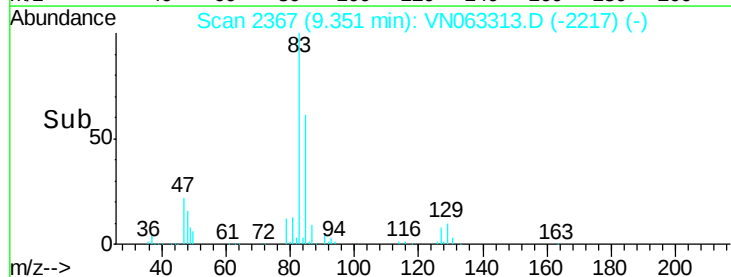
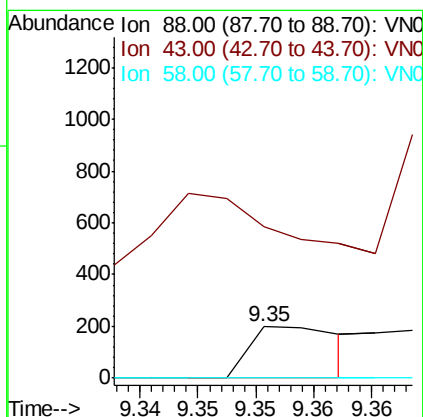
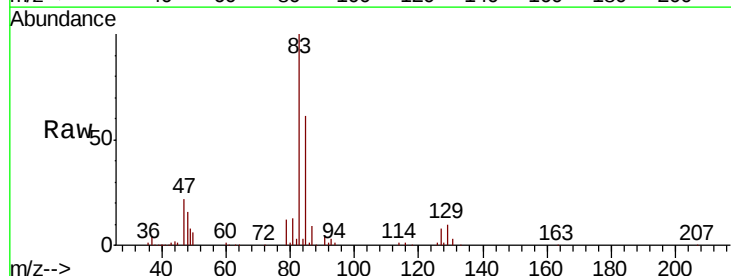
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

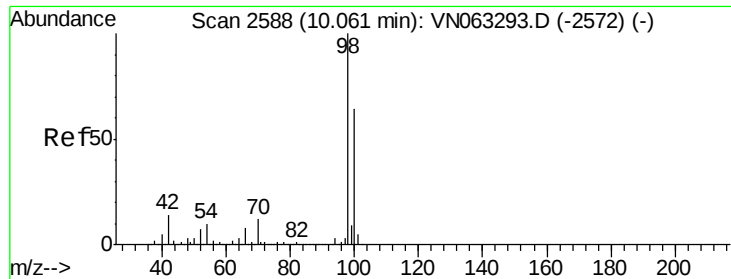
Tot Ion: 41 Resp: 247033
Ion Ratio Lower Upper
41 100
69 0.0 63.6 95.4#
39 88.7 53.2 79.8#



#49
1,4-Dioxane
Concen: 1.053 ug/l
RT: 9.35 min Scan# 2367
Delta R.T. 0.18 min
Lab File: VN063313.D
Acq: 11 Sep 2020 14:42

Tgt Ion: 88 Resp: 109
Ion Ratio Lower Upper
88 100
43 174.3 30.5 45.7#
58 0.0 58.9 88.3#





#50

Toluene-d8

Concen: 50.526 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. -0.00 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

Instrument :

MSVOA_N

ClientSampled :

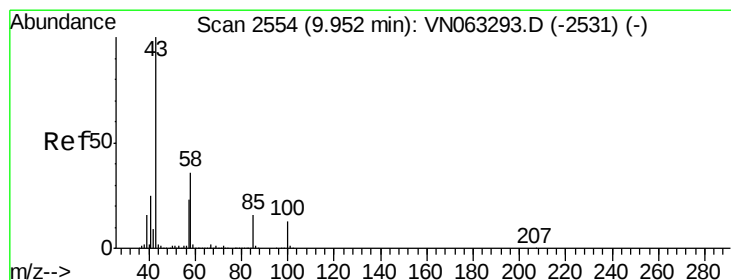
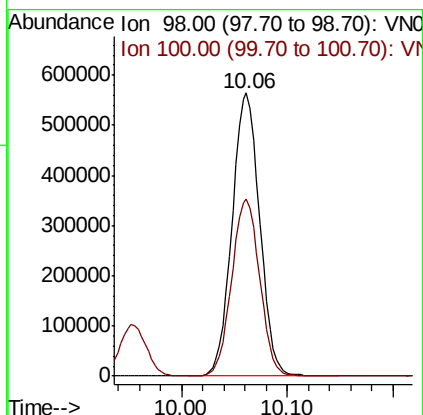
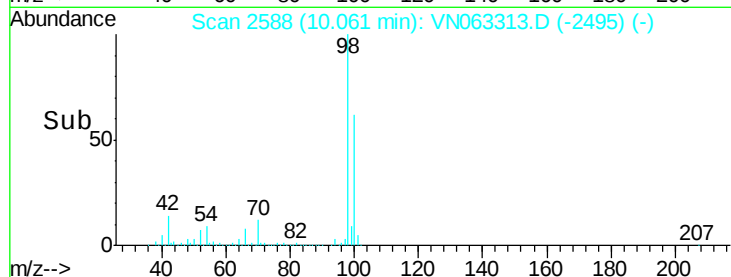
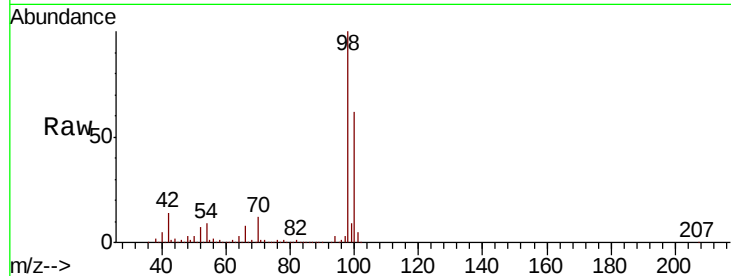
PT-VOA-WP

Tot Ion: 98 Resp: 1022169

Ion Ratio Lower Upper

98 100

100 63.3 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 188.707 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063313.D

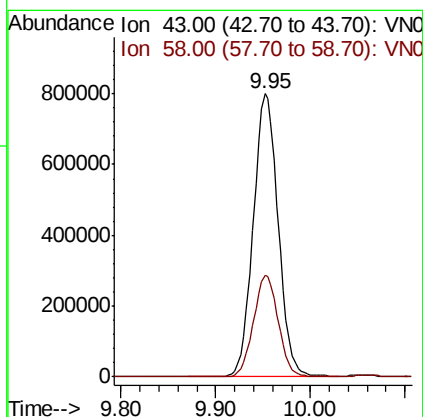
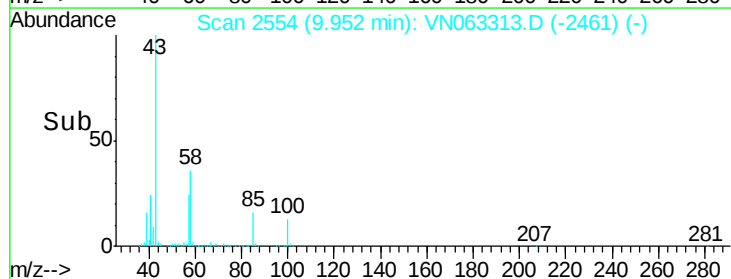
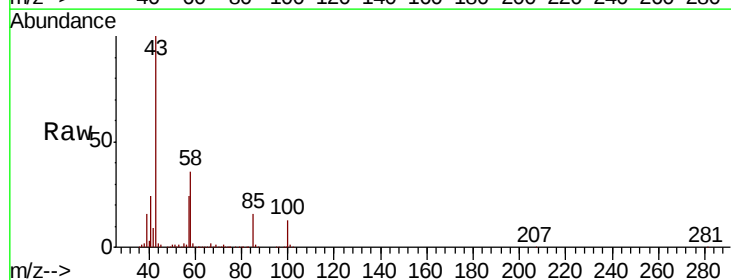
Acq: 11 Sep 2020 14:42

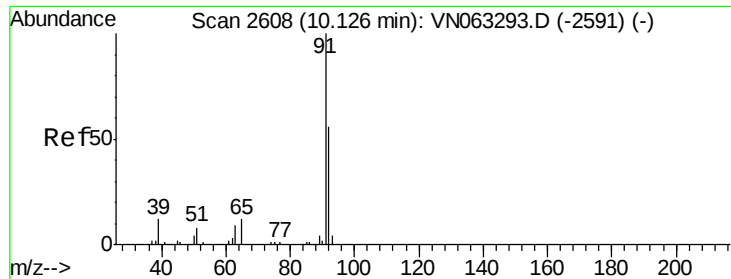
Tgt Ion: 43 Resp: 1457375

Ion Ratio Lower Upper

43 100

58 35.8 29.0 43.4





#52

Toluene

Concen: 48.097 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. -0.00 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

Instrument :

MSVOA_N

ClientSampleId :

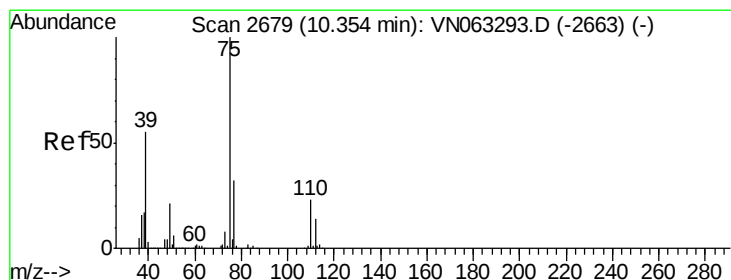
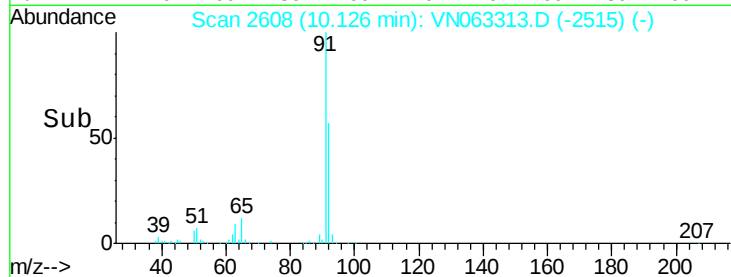
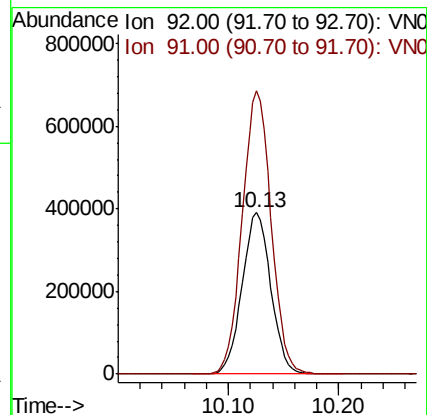
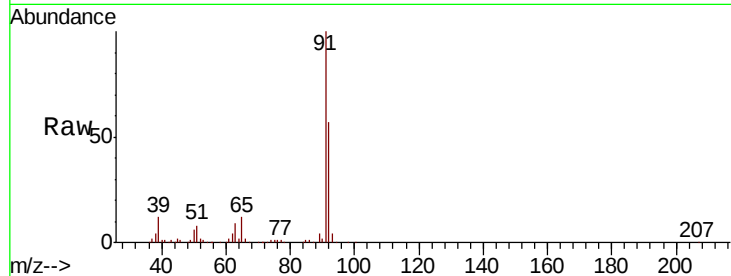
PT-VOA-WP

Tot Ion: 92 Resp: 705478

Ion Ratio Lower Upper

92 100

91 176.1 141.2 211.8



#53

t-1,3-Dichloropropene

Concen: 23.517 ug/l

RT: 10.35 min Scan# 2679

Delta R.T. -0.00 min

Lab File: VN063313.D

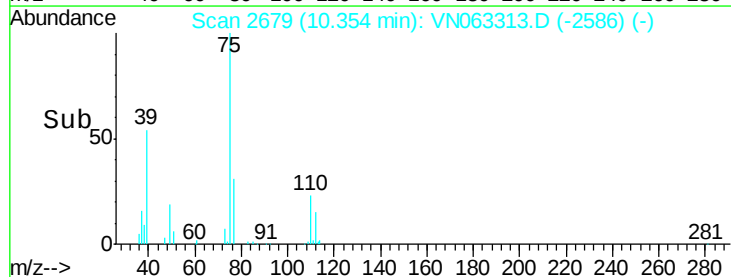
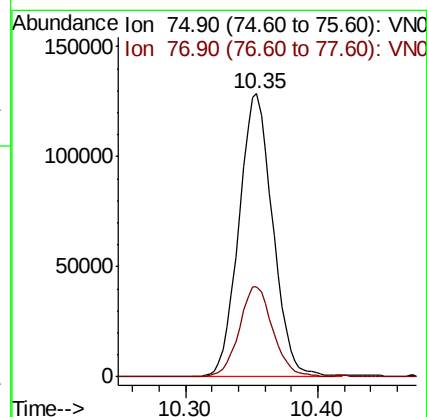
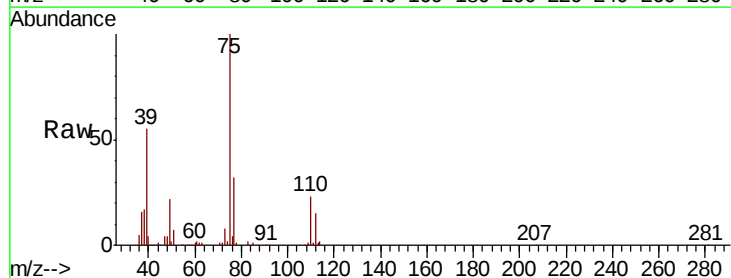
Acq: 11 Sep 2020 14:42

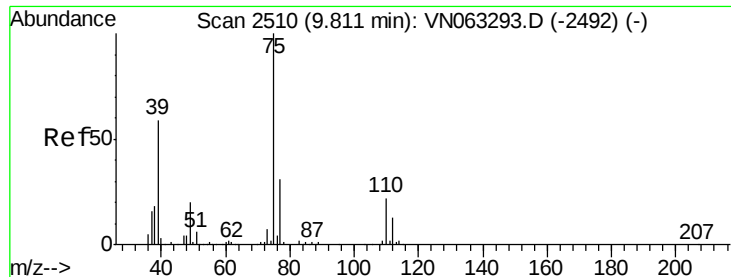
Tgt Ion: 75 Resp: 228369

Ion Ratio Lower Upper

75 100

77 31.8 25.7 38.5



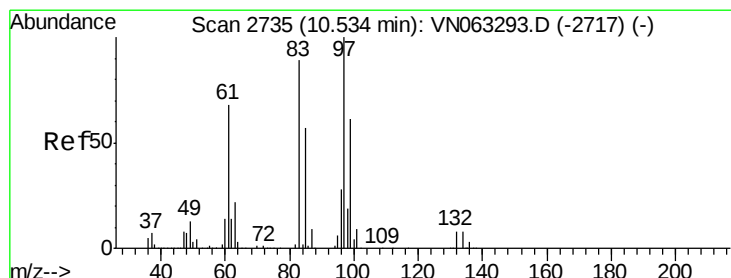
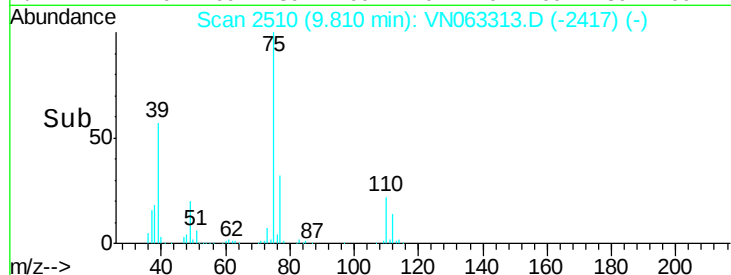
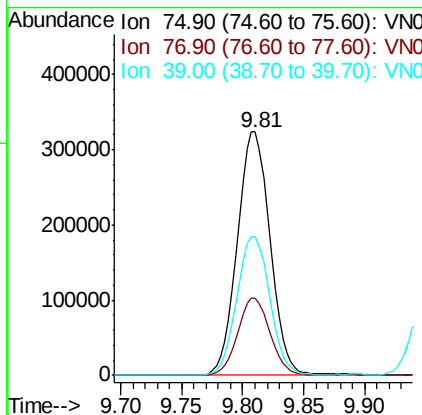
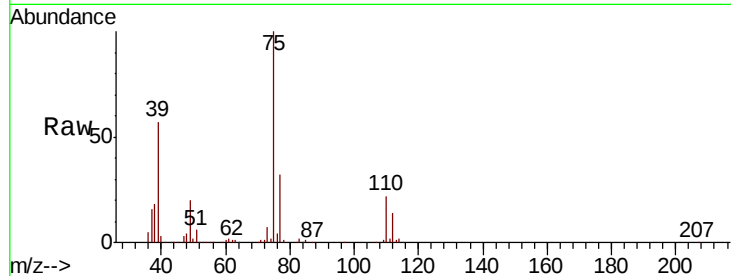


#54

cis-1,3-Dichloropropene
 Concen: 57.570 ug/l
 RT: 9.81 min Scan# 2510
 Delta R.T. -0.00 min
 Lab File: VN063313.D
 Acq: 11 Sep 2020 14:42

Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

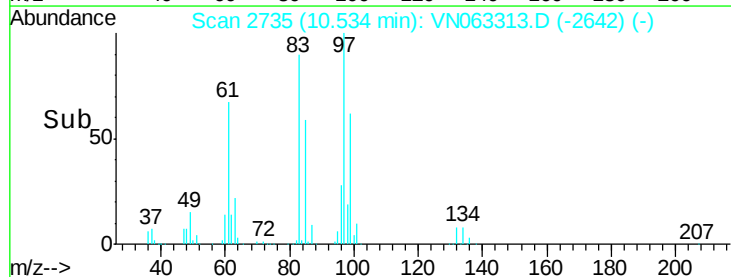
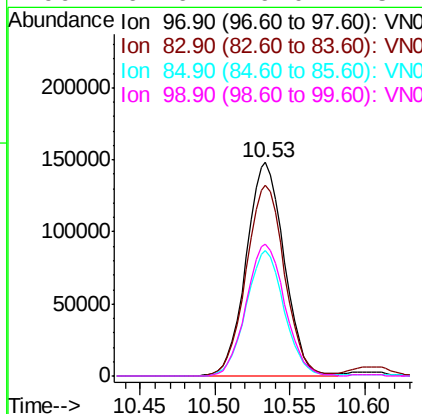
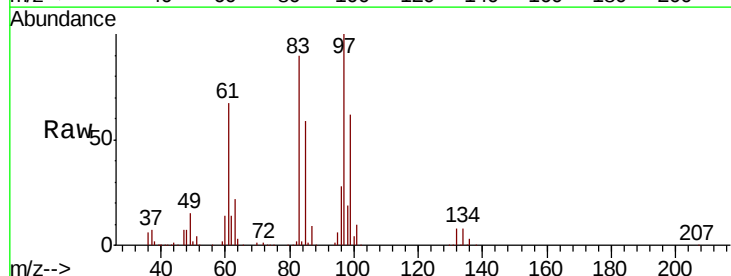
Tot Ion: 75 Resp: 601921
 Ion Ratio Lower Upper
 75 100
 77 31.7 24.7 37.1
 39 56.8 47.2 70.8

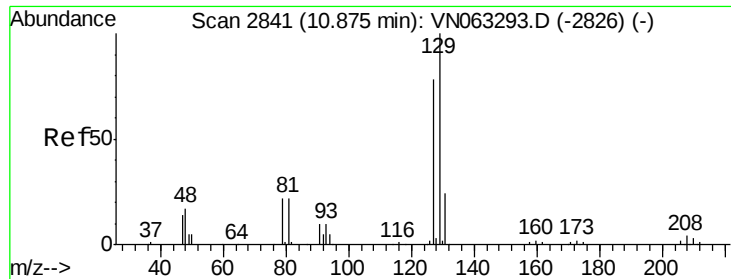


#55

1,1,2-Trichloroethane
 Concen: 45.589 ug/l
 RT: 10.53 min Scan# 2735
 Delta R.T. -0.00 min
 Lab File: VN063313.D
 Acq: 11 Sep 2020 14:42

Tgt Ion: 97 Resp: 262028
 Ion Ratio Lower Upper
 97 100
 83 89.6 70.8 106.2
 85 58.9 45.6 68.4
 99 61.6 49.0 73.4

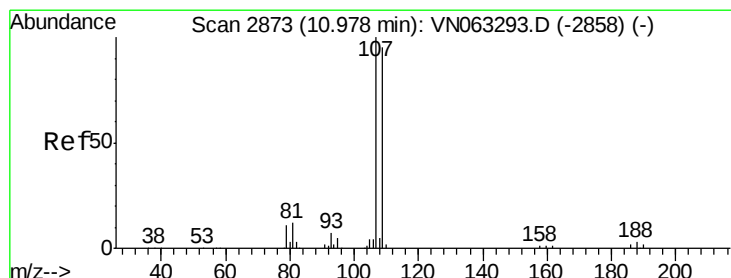
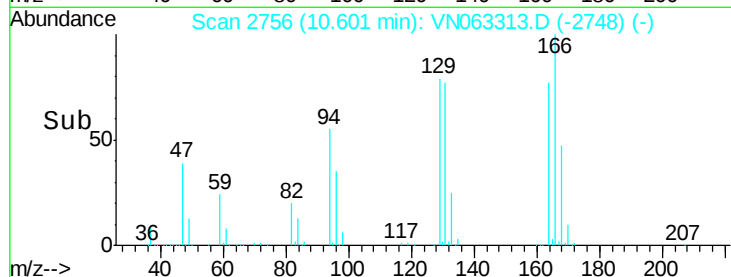
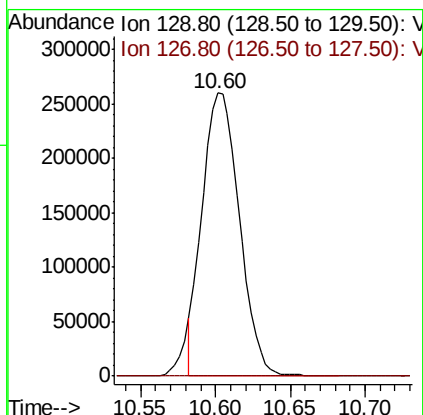
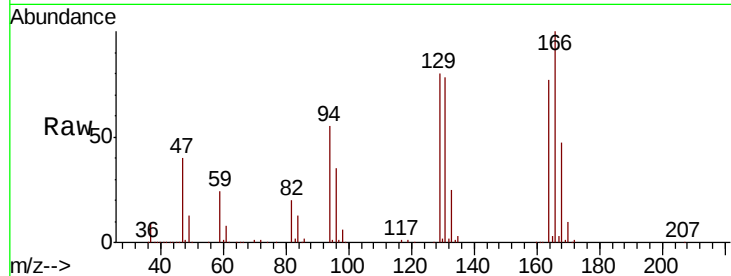




#60
 Dibromochloromethane
 Concen: 70.818 ug/l
 RT: 10.60 min Scan# 2756
 Delta R.T. -0.27 min
 Lab File: VN063313.D
 Acq: 11 Sep 2020 14:42

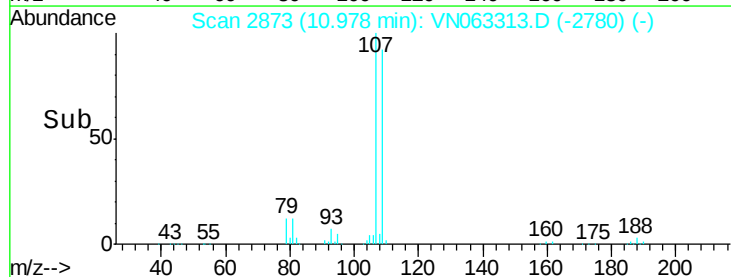
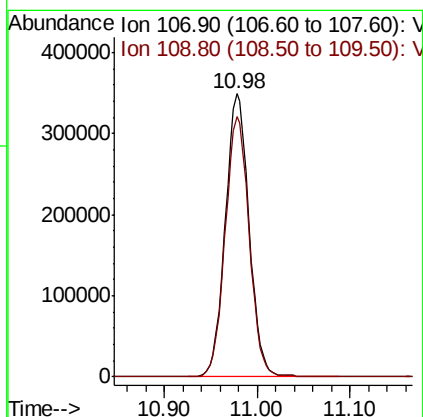
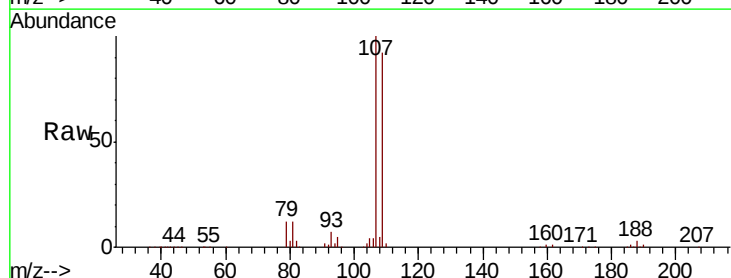
Instrument :
 MSVOA_N
 ClientSampled :
 PT-VOA-WP

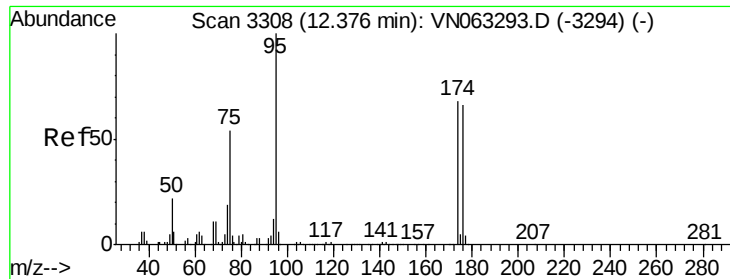
Tot Ion:129 Resp: 446972
 Ion Ratio Lower Upper
 129 100
 127 0.2 39.0 117.0#



#61
 1,2-Dibromoethane
 Concen: 103.650 ug/l
 RT: 10.98 min Scan# 2873
 Delta R.T. -0.00 min
 Lab File: VN063313.D
 Acq: 11 Sep 2020 14:42

Tgt Ion:107 Resp: 621060
 Ion Ratio Lower Upper
 107 100
 109 93.2 75.5 113.3





#62

4-Bromofluorobenzene

Concen: 48.890 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WP

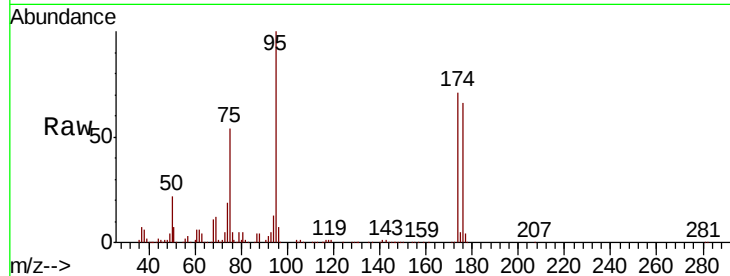
Tot Ion: 95 Resp: 365316

Ion Ratio Lower Upper

95 100

174 69.9 0.0 136.6

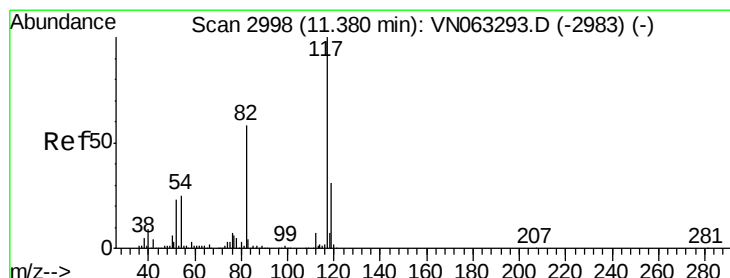
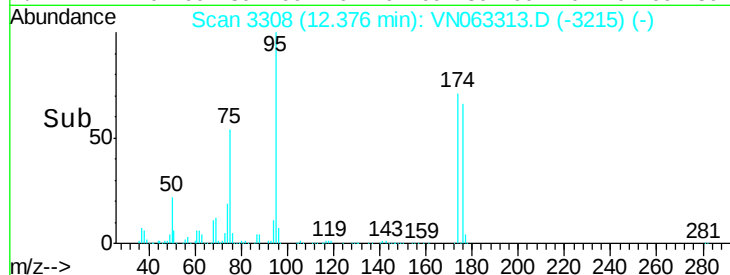
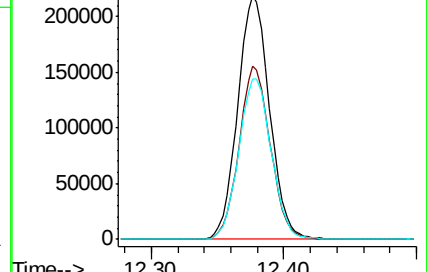
176 67.5 0.0 132.8



Abundance Ion 94.90 (94.60 to 95.60): VN063313.D (-3215) (-)

Ion 173.80 (173.50 to 174.50): VN063313.D (-3215) (-)

Ion 175.80 (175.50 to 176.50): VN063313.D (-3215) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

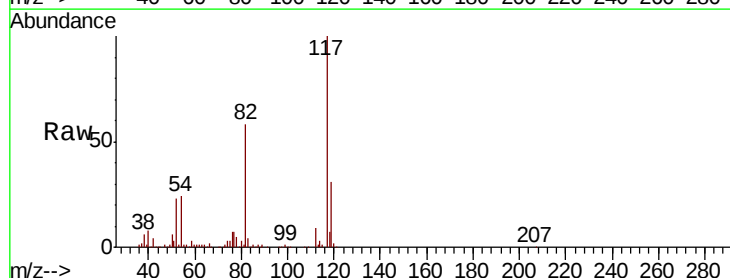
Tgt Ion: 117 Resp: 735420

Ion Ratio Lower Upper

117 100

82 57.9 46.4 69.6

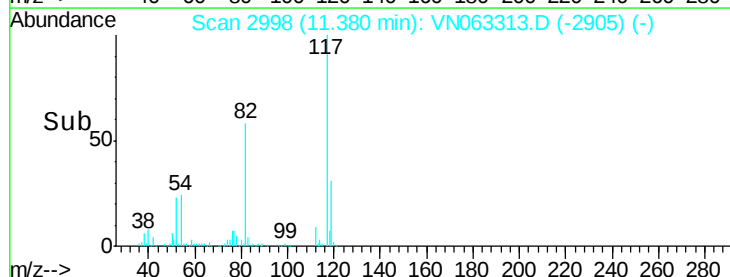
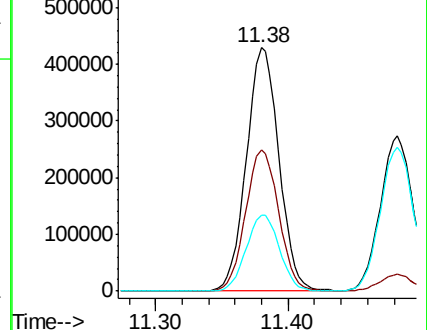
119 31.3 24.8 37.2

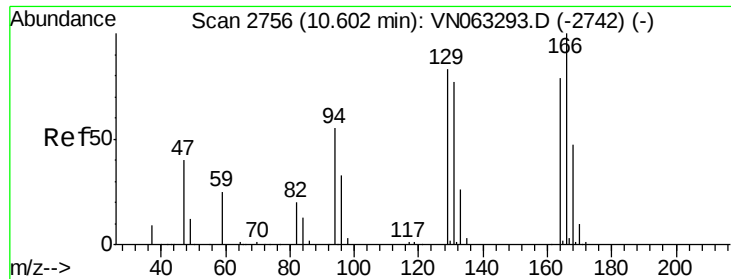


Abundance Ion 116.90 (116.60 to 117.60): VN063313.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063313.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063313.D (-2905) (-)

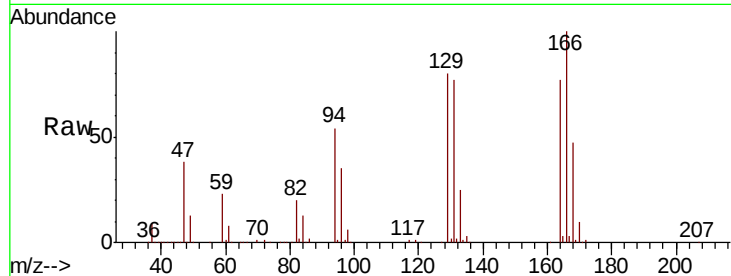




#64
Tetrachloroethene
Concen: 74.867 ug/l
RT: 10.60 min Scan# 2757
Delta R.T. 0.00 min
Lab File: VN063313.D
Acq: 11 Sep 2020 14:42

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

Tot Ion	Ratio	Lower	Upper
164	100		
166	130.1	101.3	151.9
129	103.6	83.7	125.5
131	100.2	78.2	117.4



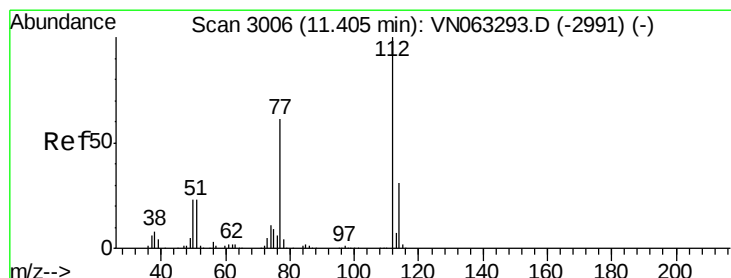
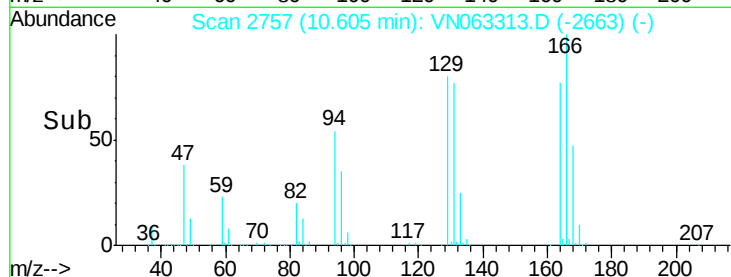
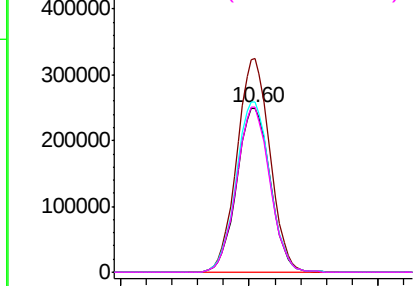
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

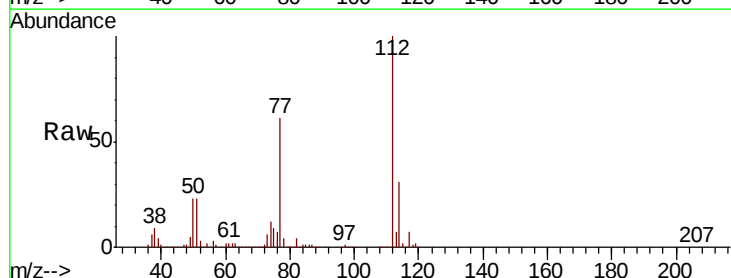
Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65
Chlorobenzene
Concen: 72.869 ug/l
RT: 11.41 min Scan# 3006
Delta R.T. -0.00 min
Lab File: VN063313.D
Acq: 11 Sep 2020 14:42

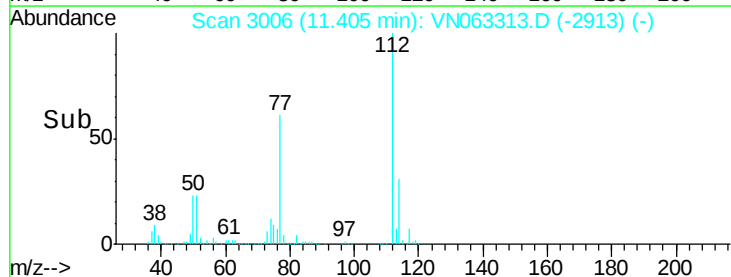
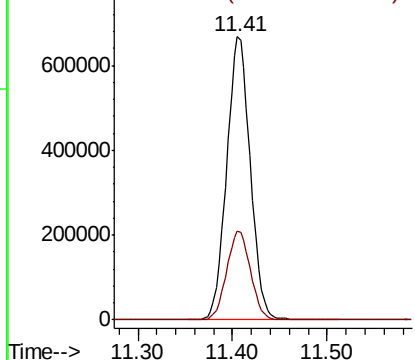
Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.3	24.6	36.8

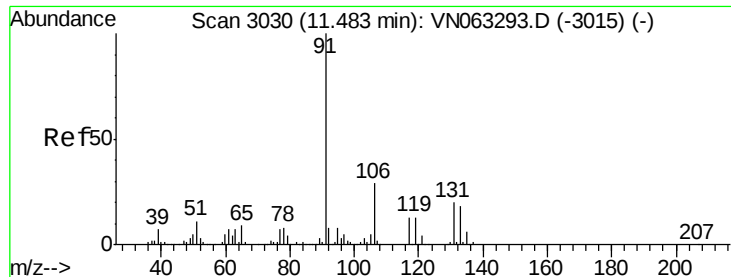


Abundance

Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#66

1,1,1,2-Tetrachloroethane

Concen: 116.171 ug/l

RT: 11.48 min Scan# 3030

Delta R.T. -0.00 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

Instrument :

MSVOA_N

ClientSampled :

PT-VOA-WP

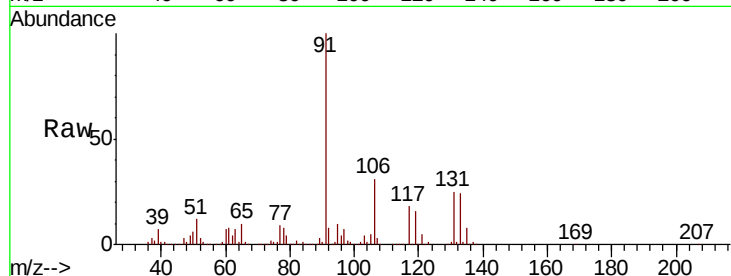
Tot Ion:131 Resp: 670118

Ion Ratio Lower Upper

131 100

133 95.1 47.4 142.2

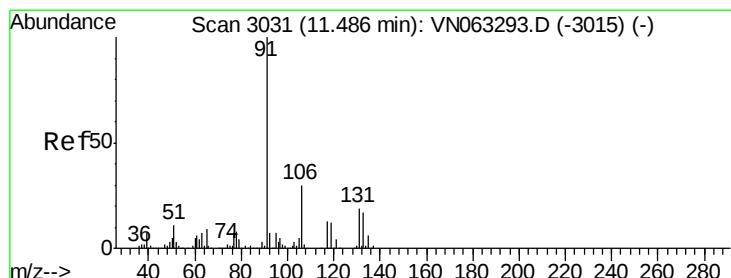
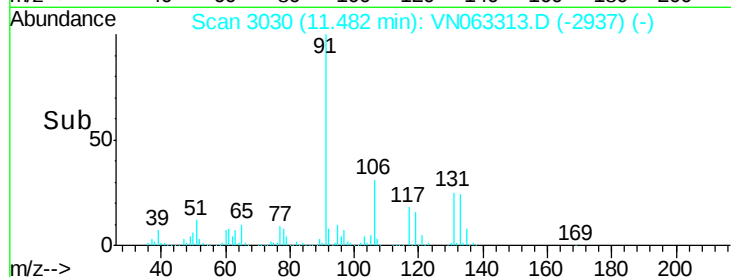
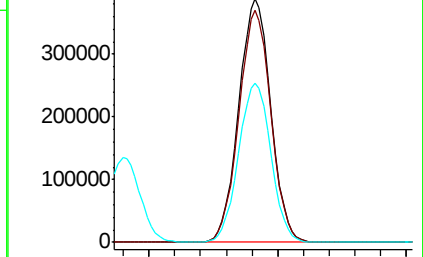
119 66.1 33.8 101.3



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



#67

Ethyl Benzene

Concen: 93.995 ug/l

RT: 11.49 min Scan# 3031

Delta R.T. -0.00 min

Lab File: VN063313.D

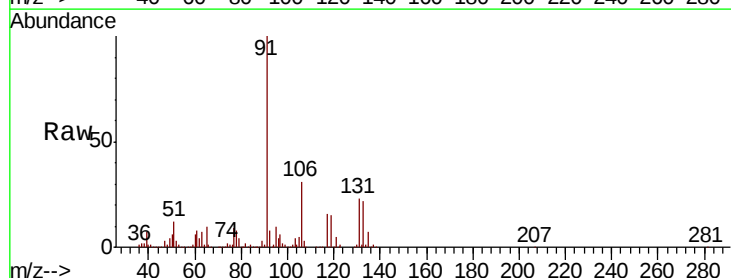
Acq: 11 Sep 2020 14:42

Tgt Ion: 91 Resp: 2671627

Ion Ratio Lower Upper

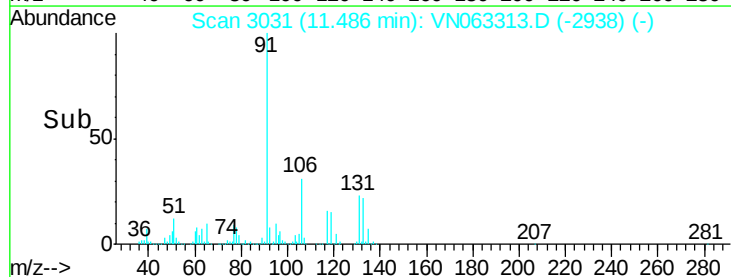
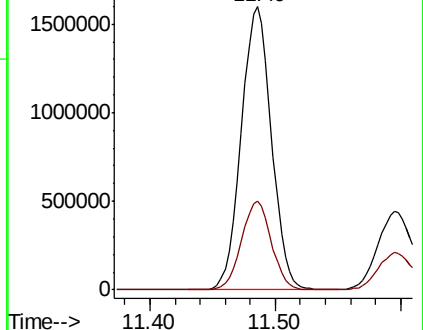
91 100

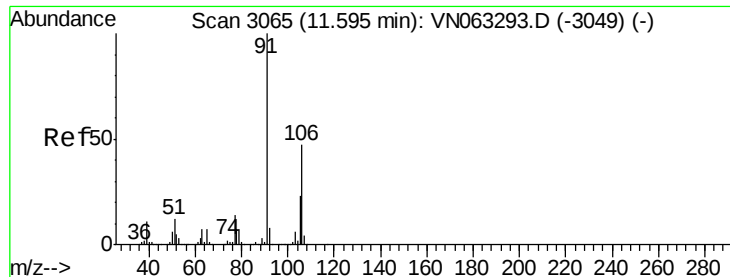
106 31.4 23.8 35.6



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

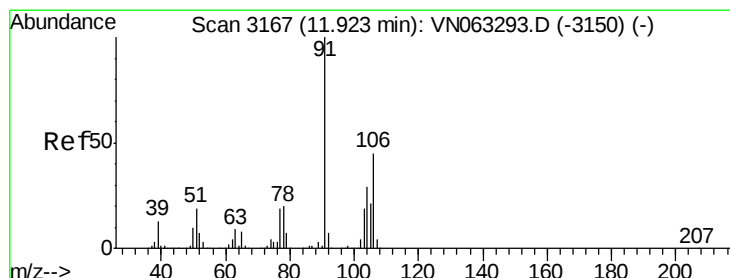
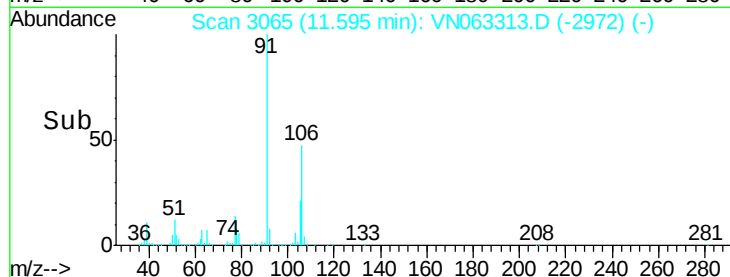
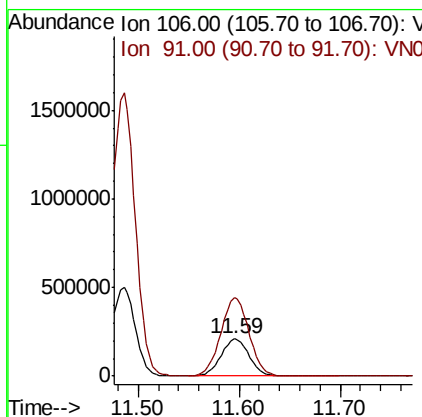
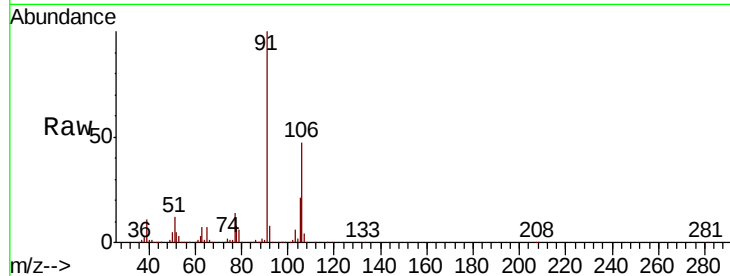




#68
m/p-Xylenes
Concen: 39.190 ug/l
RT: 11.59 min Scan# 3065
Delta R.T. -0.00 min
Lab File: VN063313.D
Acq: 11 Sep 2020 14:42

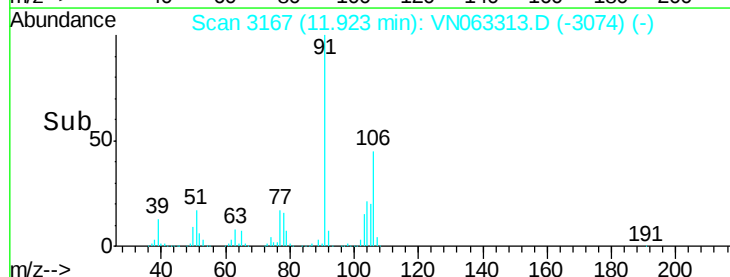
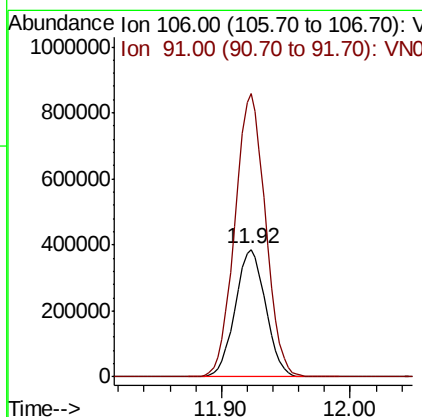
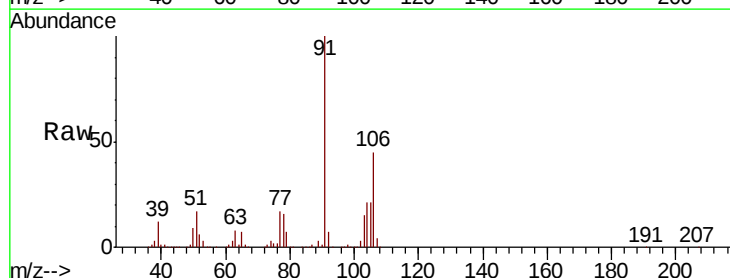
Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WP

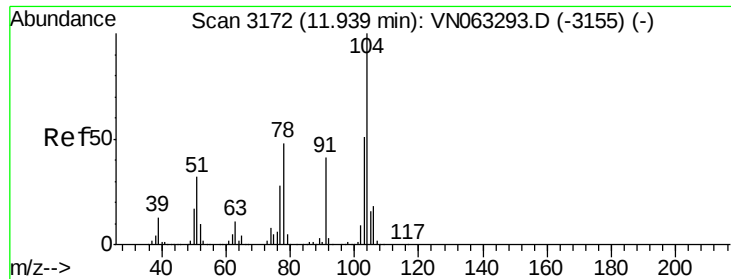
Tot Ion:106 Resp: 412034
Ion Ratio Lower Upper
106 100
91 210.2 169.8 254.8



#69
o-Xylene
Concen: 62.889 ug/l
RT: 11.92 min Scan# 3167
Delta R.T. -0.00 min
Lab File: VN063313.D
Acq: 11 Sep 2020 14:42

Tgt Ion:106 Resp: 634535
Ion Ratio Lower Upper
106 100
91 222.9 111.5 334.4

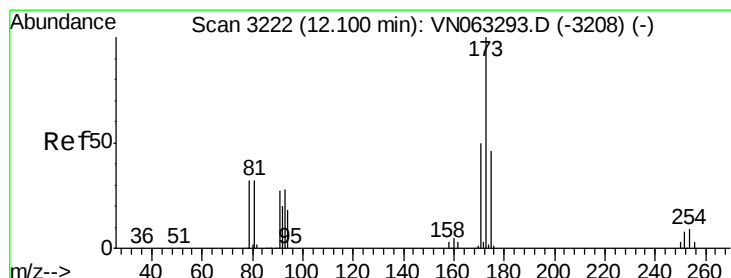
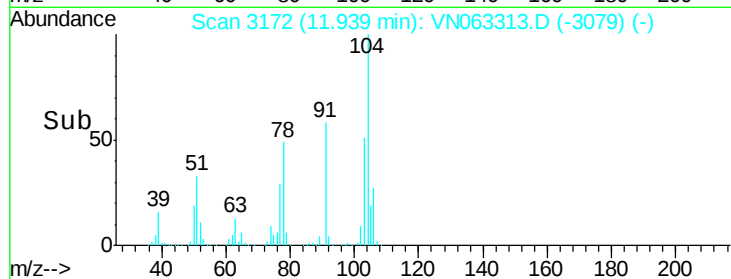
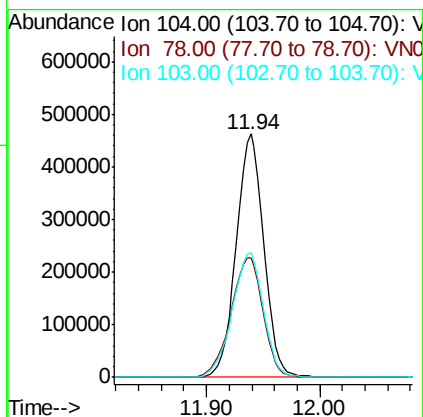
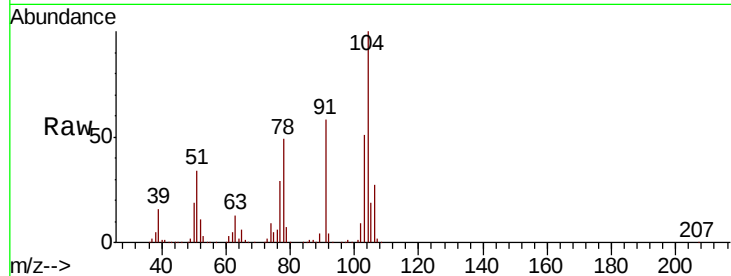




#70
Stvrene
Concen: 46.971 ug/l
RT: 11.94 min Scan# 3172
Delta R.T. -0.00 min
Lab File: VN063313.D
Acq: 11 Sep 2020 14:42

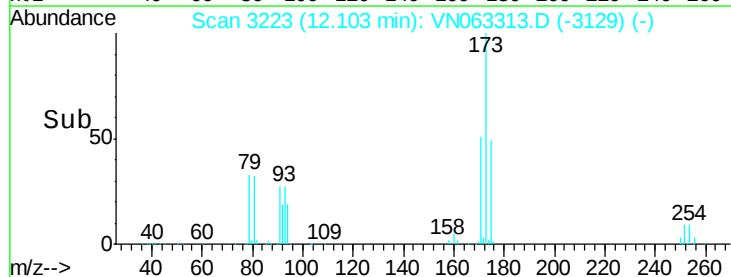
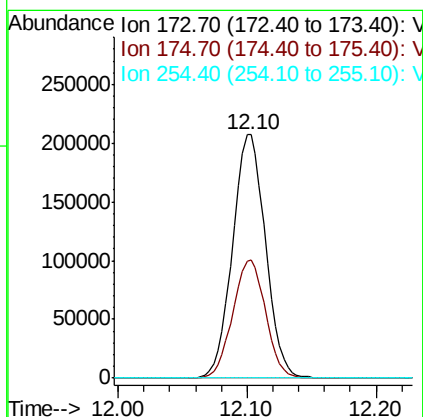
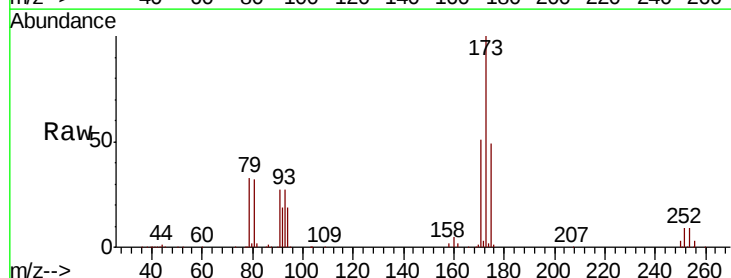
Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WP

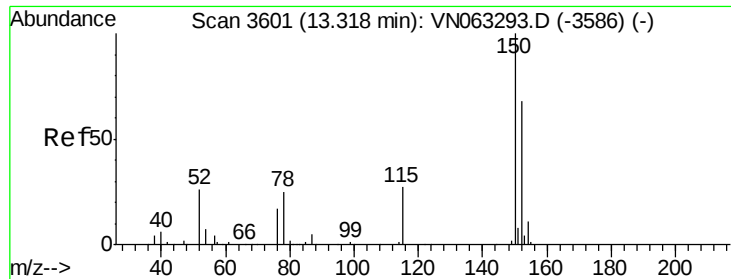
Tot Ion:104 Resp: 787683
Ion Ratio Lower Upper
104 100
78 57.0 42.9 64.3
103 57.8 44.2 66.2



#71
Bromoform
Concen: 92.248 ug/l
RT: 12.10 min Scan# 3223
Delta R.T. 0.00 min
Lab File: VN063313.D
Acq: 11 Sep 2020 14:42

Tgt Ion:173 Resp: 368048
Ion Ratio Lower Upper
173 100
175 48.3 23.8 71.5
254 0.1 0.0 0.0#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WP

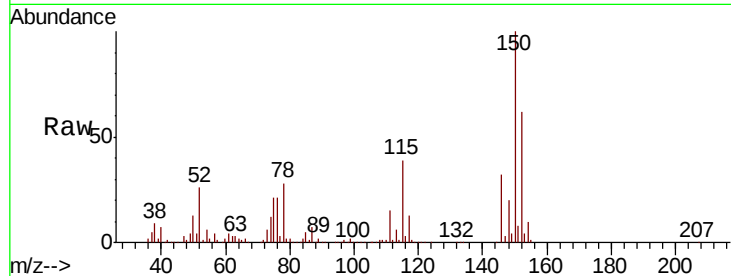
Tot Ion:152 Resp: 330902

Ion Ratio Lower Upper

152 100

115 62.8 31.5 94.5

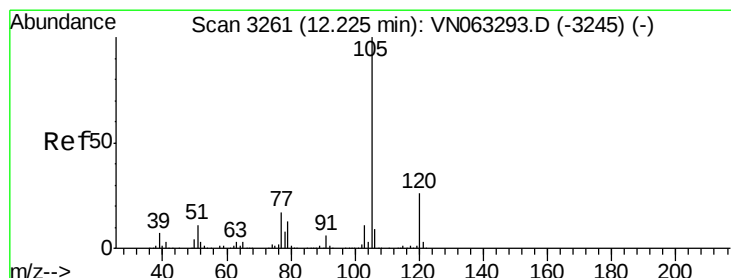
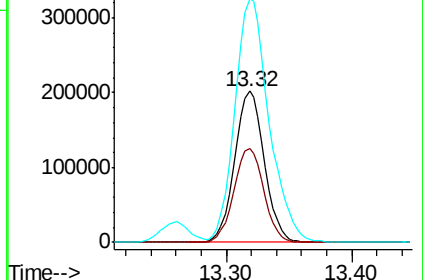
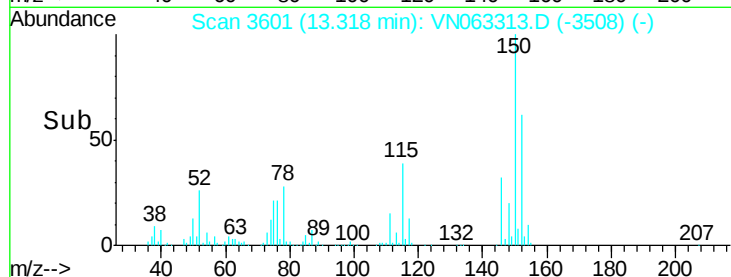
150 186.0 0.0 344.0



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: 0.206 ug/l

RT: 12.23 min Scan# 3261

Delta R.T. -0.00 min

Lab File: VN063313.D

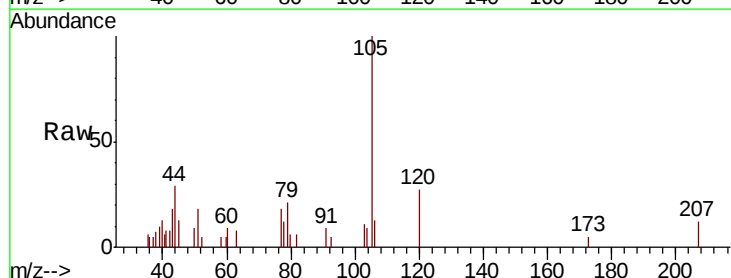
Acq: 11 Sep 2020 14:42

Tgt Ion:105 Resp: 5495

Ion Ratio Lower Upper

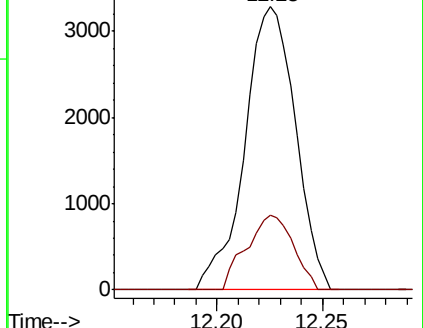
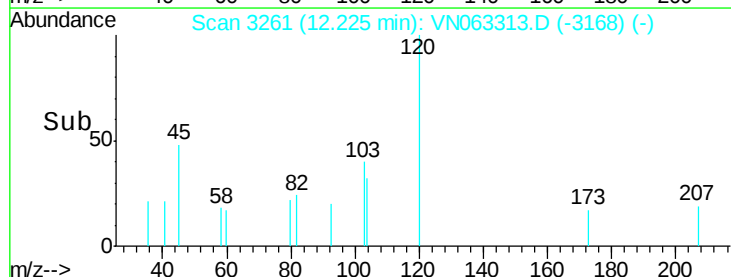
105 100

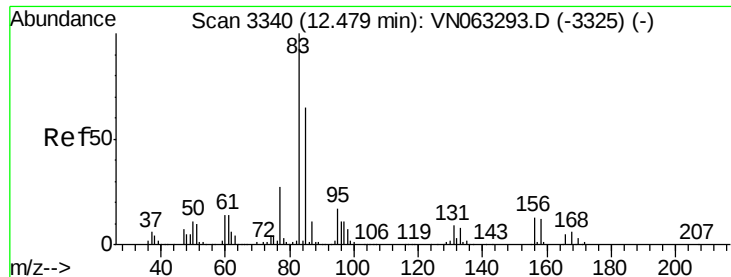
120 24.4 13.0 38.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 2.085 ug/l

RT: 12.53 min Scan# 3356

Delta R.T. 0.05 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WP

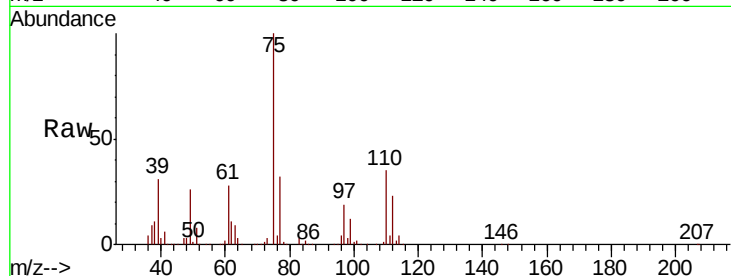
Tot Ion: 83 Resp: 15937

Ion Ratio Lower Upper

83 100

131 0.0 4.7 14.1#

85 62.6 32.0 96.2



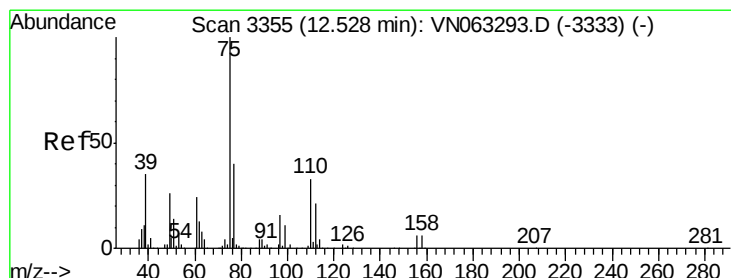
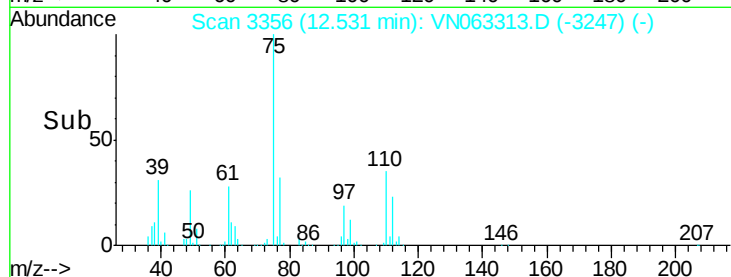
Abundance Ion 82.90 (82.60 to 83.60): VN063313.D (-3247) (-)

Ion 130.80 (130.50 to 131.50): VN063313.D (-3247) (-)

Ion 84.90 (84.60 to 85.60): VN063313.D (-3247) (-)

12.53

Time-->



#76

1,2,3-Trichloropropane

Concen: 76.995 ug/l

RT: 12.53 min Scan# 3356

Delta R.T. 0.00 min

Lab File: VN063313.D

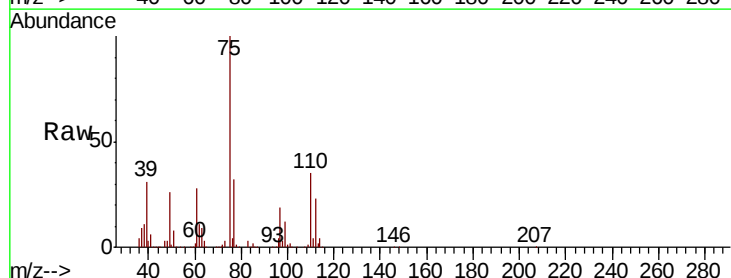
Acq: 11 Sep 2020 14:42

Tgt Ion: 75 Resp: 562081

Ion Ratio Lower Upper

75 100

77 32.6 0.0 0.0#

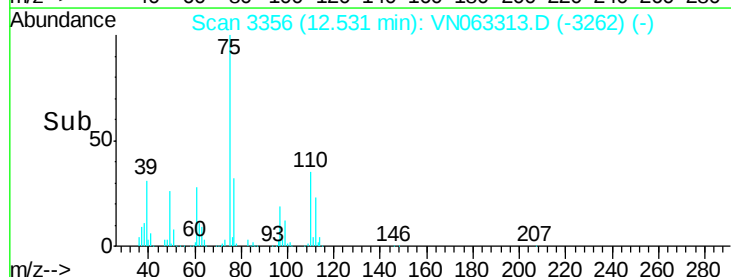


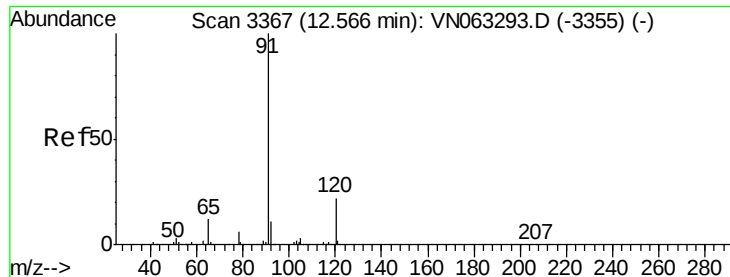
Abundance Ion 74.90 (74.60 to 75.60): VN063313.D (-3262) (-)

Ion 77.00 (76.70 to 77.70): VN063313.D (-3262) (-)

12.53

Time-->





#78

n-propylbenzene

Concen: 6.827 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. 0.14 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

Instrument :

MSVOA_N

ClientSampled :

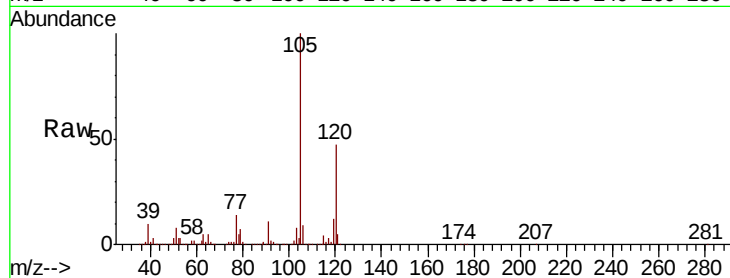
PT-VOA-WP

Tot Ion: 91 Resp: 206998

Ion Ratio Lower Upper

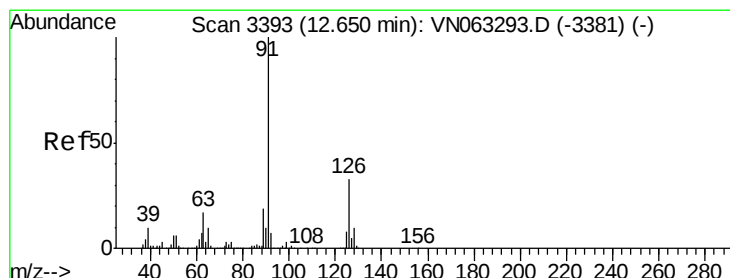
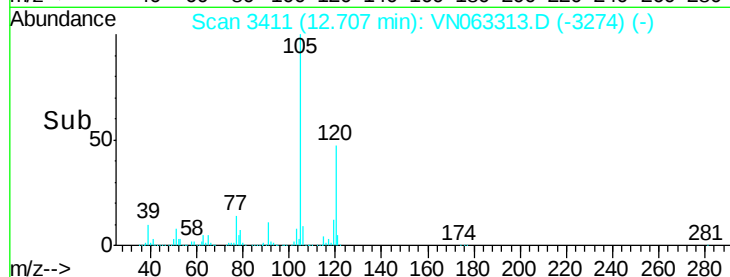
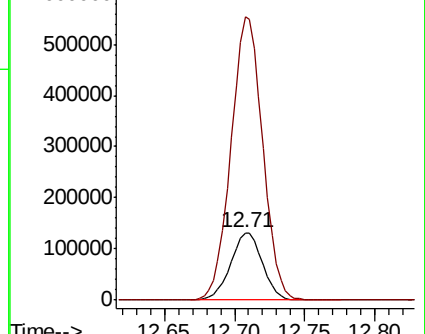
91 100

120 420.1 11.1 33.3#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 11.103 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. 0.06 min

Lab File: VN063313.D

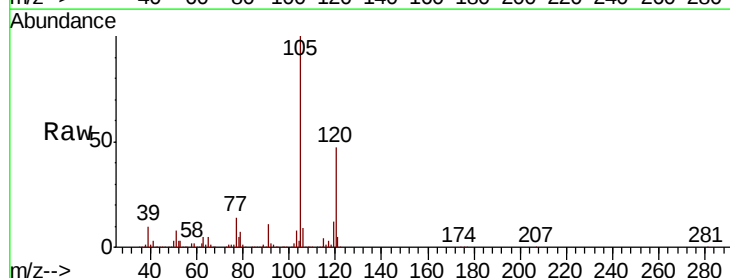
Acq: 11 Sep 2020 14:42

Tgt Ion: 91 Resp: 206998

Ion Ratio Lower Upper

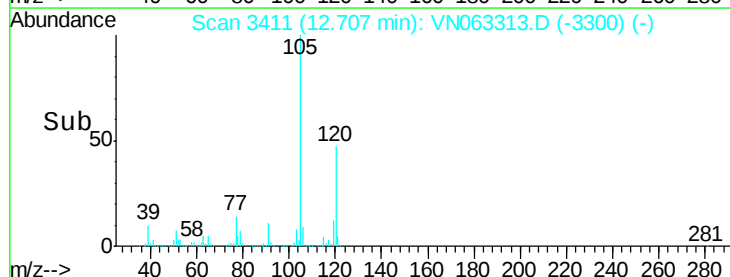
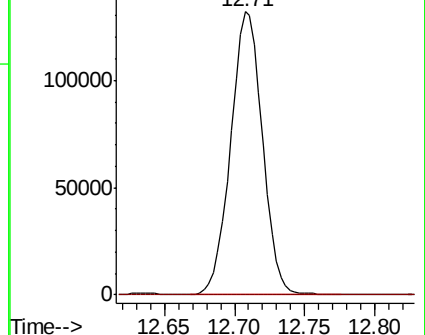
91 100

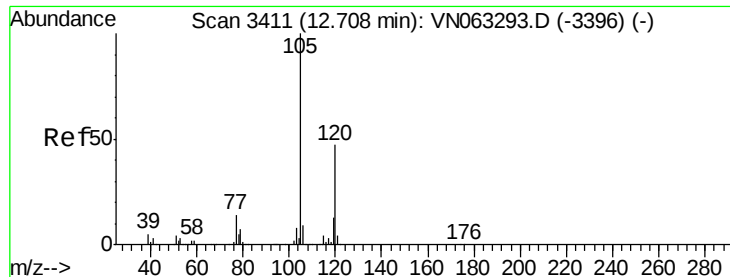
126 0.0 16.3 48.8#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#80

1,3,5-Trimethylbenzene

Concen: 83.094 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. -0.00 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

Instrument :

MSVOA_N

ClientSampled :

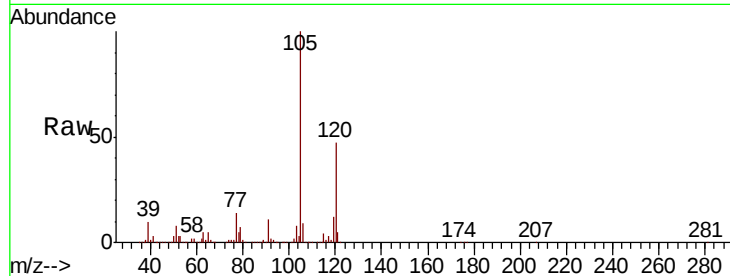
PT-VOA-WP

Tot Ion:105 Resp: 1841556

Ion Ratio Lower Upper

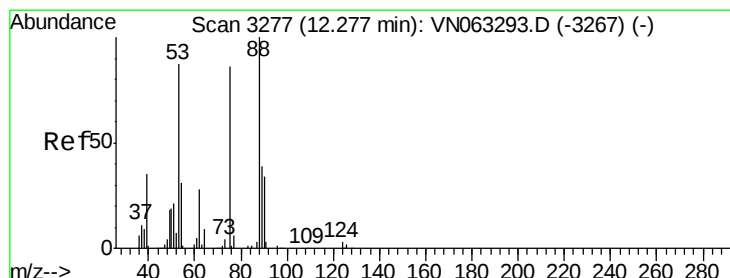
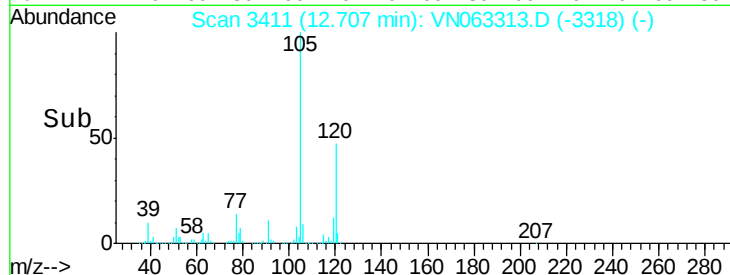
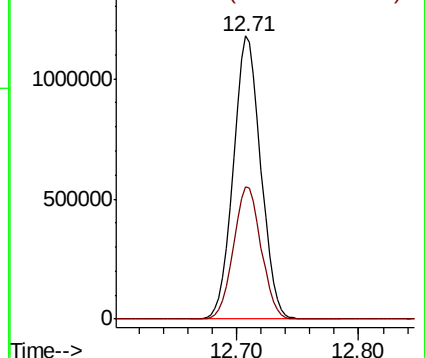
105 100

120 47.2 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 73.007 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

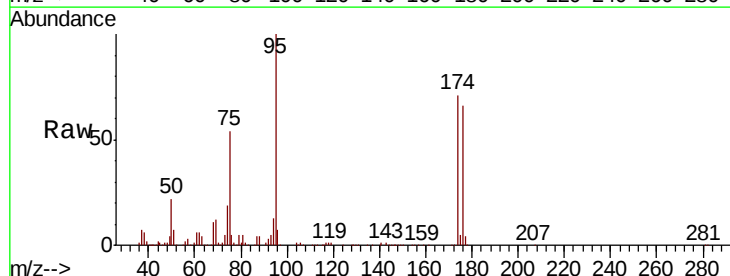
Tgt Ion: 75 Resp: 198364

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.8#

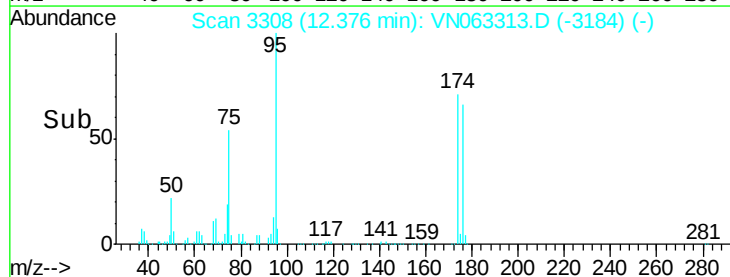
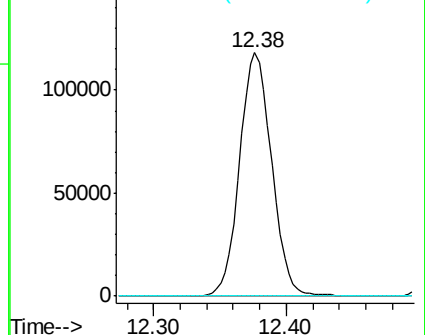
89 0.0 36.7 55.1#

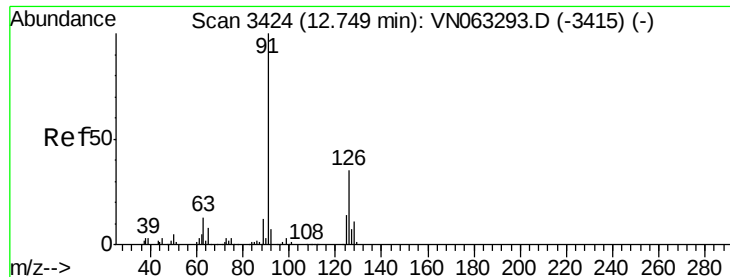


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#82

4-Chlorotoluene

Concen: 10.592 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. -0.04 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

Instrument :

MSVOA_N

ClientSampleId :

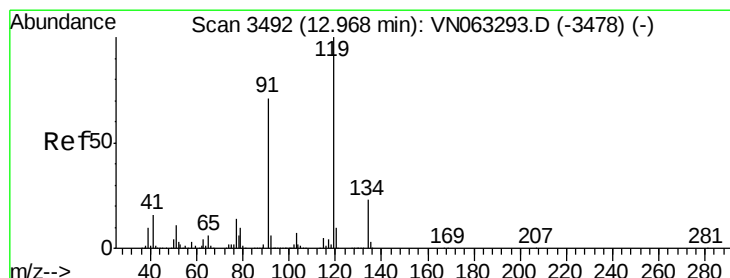
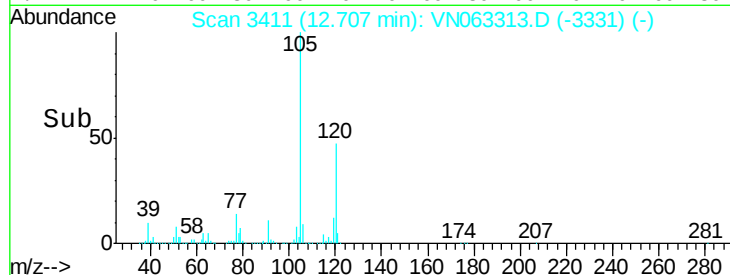
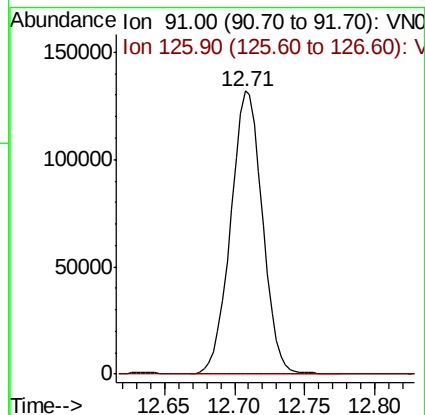
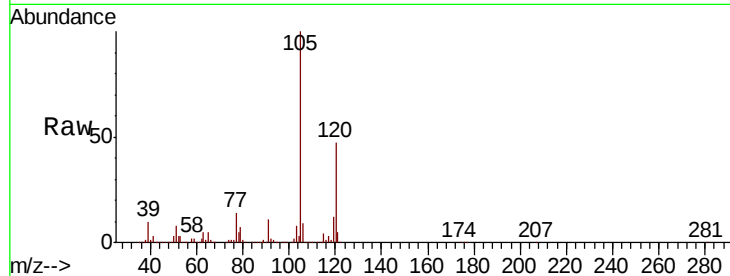
PT-VOA-WP

Tot Ion: 91 Resp: 206998

Ion Ratio Lower Upper

91 100

126 0.0 15.9 47.7#



#83

tert-Butylbenzene

Concen: 12.054 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. -0.26 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

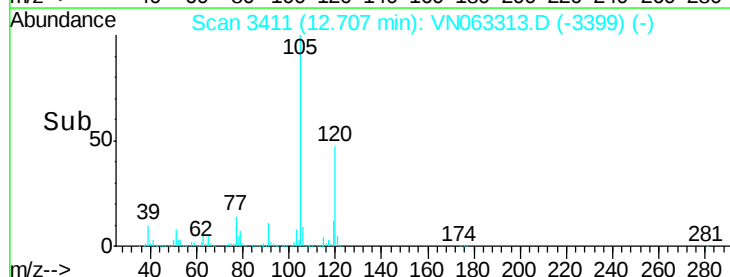
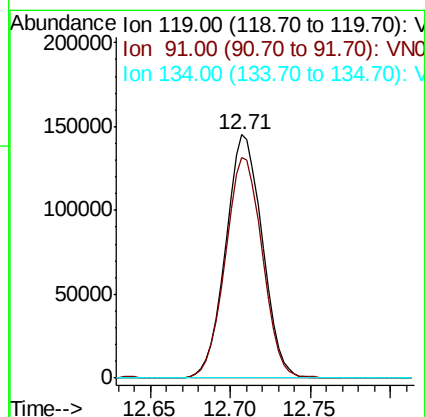
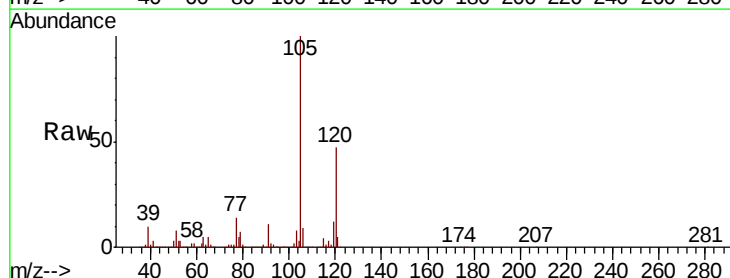
Tgt Ion: 119 Resp: 226562

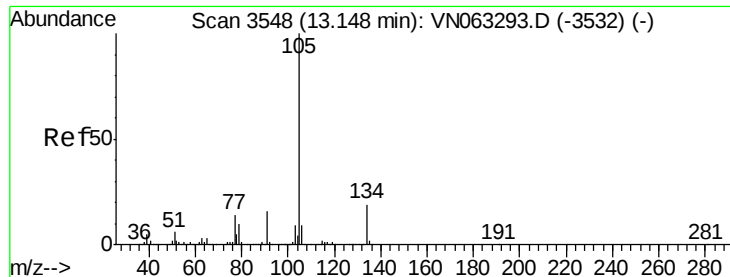
Ion Ratio Lower Upper

119 100

91 91.3 34.8 104.3

134 0.0 11.9 35.5#





#85

sec-Butylbenzene

Concen: 0.476 ug/l

RT: 13.02 min Scan# 3507

Delta R.T. -0.13 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

Instrument :

MSVOA_N

ClientSampleId :

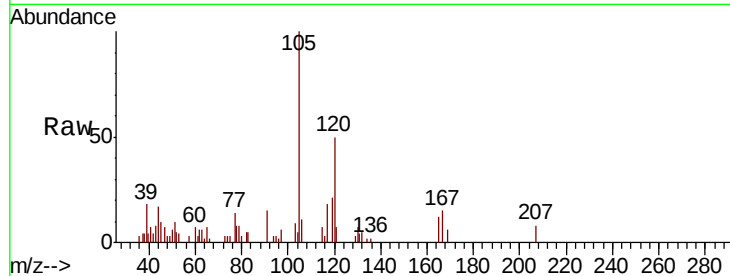
PT-VOA-WP

Tot Ion:105 Resp: 11373

Ion Ratio Lower Upper

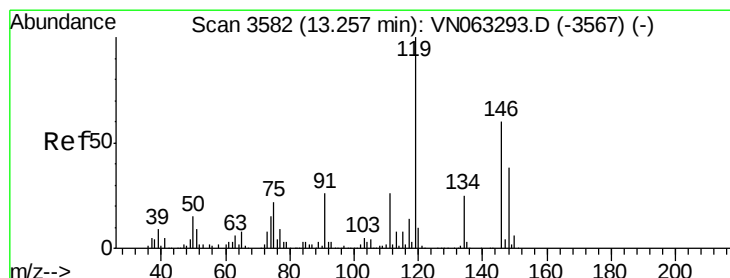
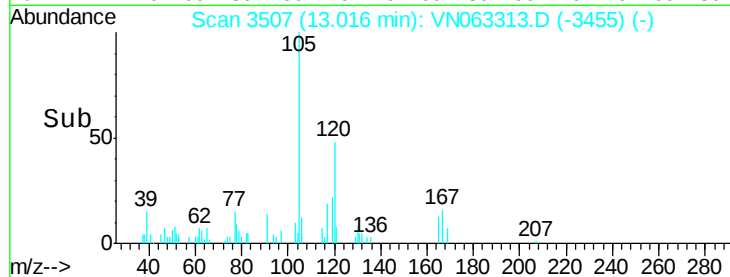
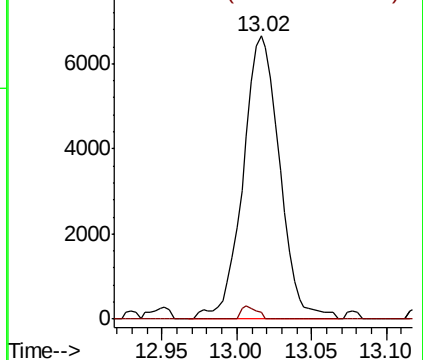
105 100

134 2.0 9.4 28.3#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#87

1,3-Dichlorobenzene

Concen: 40.503 ug/l

RT: 13.26 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

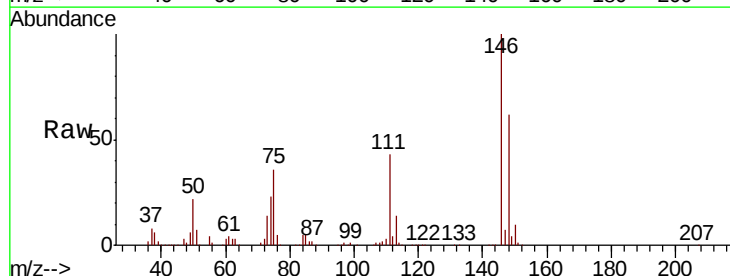
Tgt Ion:146 Resp: 454288

Ion Ratio Lower Upper

146 100

111 42.2 21.8 65.4

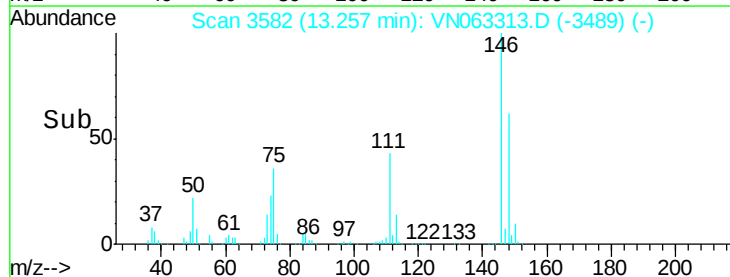
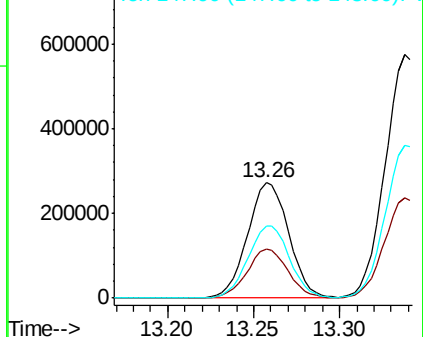
148 62.8 31.8 95.4

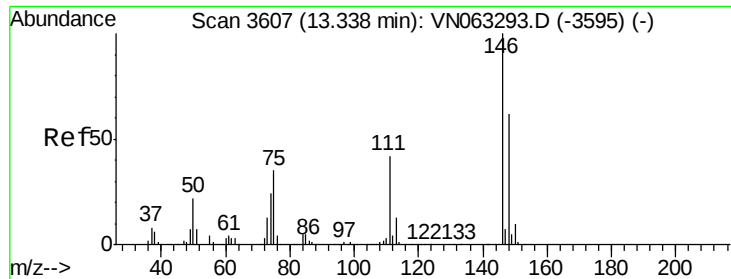


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

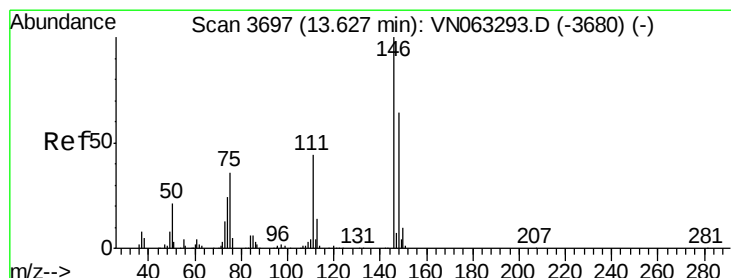
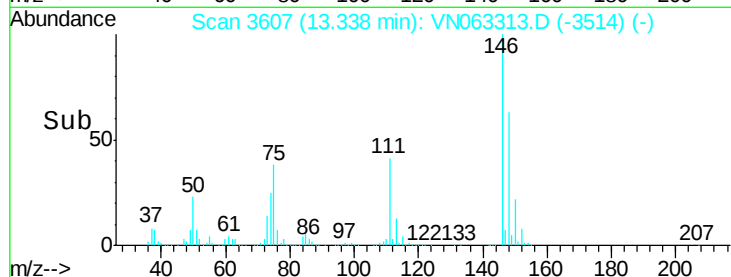
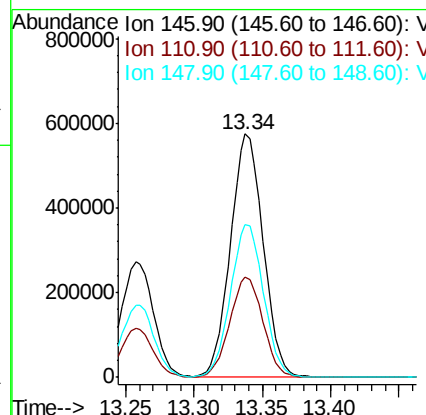
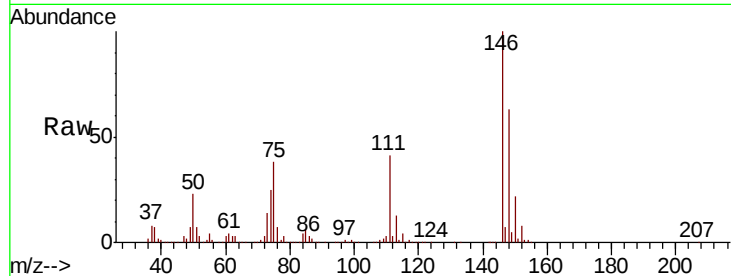




#88
 1,4-Dichlorobenzene
 Concen: 89.955 ug/l
 RT: 13.34 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VN063313.D
 Acq: 11 Sep 2020 14:42

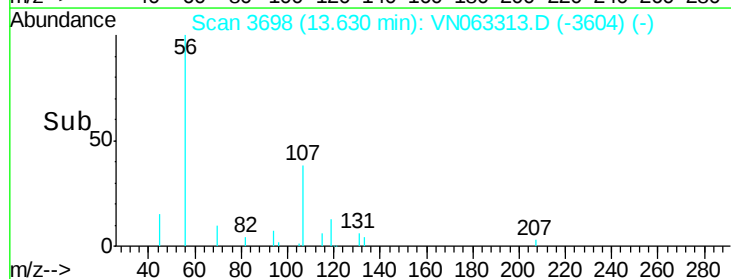
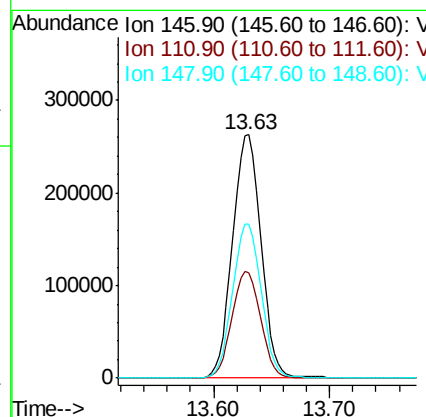
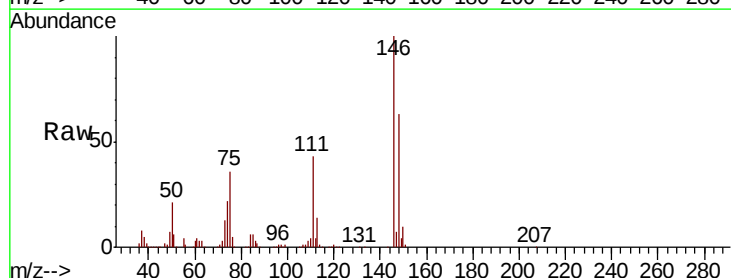
Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

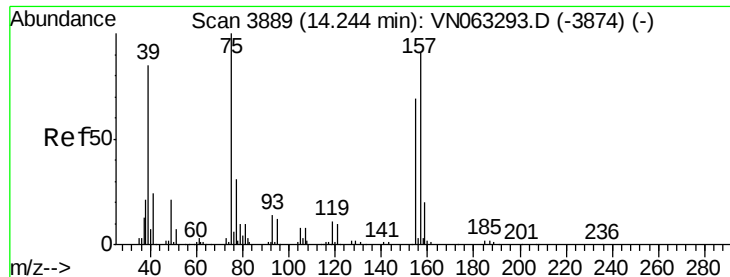
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.8	21.3	64.0
148	63.0	31.5	94.5



#91
 1,2-Dichlorobenzene
 Concen: 40.300 ug/l
 RT: 13.63 min Scan# 3698
 Delta R.T. 0.00 min
 Lab File: VN063313.D
 Acq: 11 Sep 2020 14:42

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.1	22.1	66.5
148	63.5	31.8	95.3





#92

1,2-Dibromo-3-Chloropropane

Concen: 30.806 ug/l

RT: 14.24 min Scan# 3889

Delta R.T. -0.00 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WP

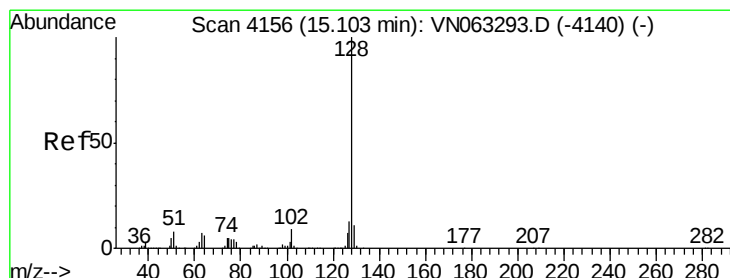
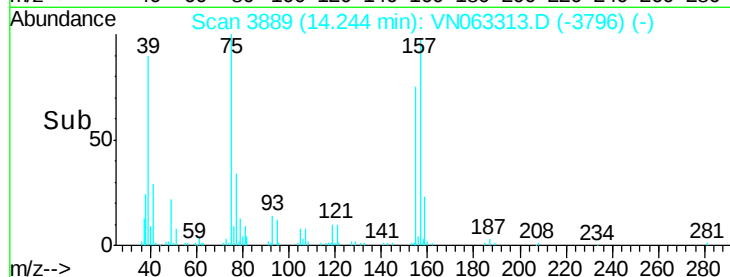
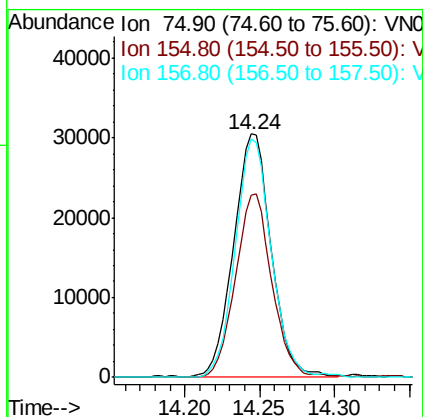
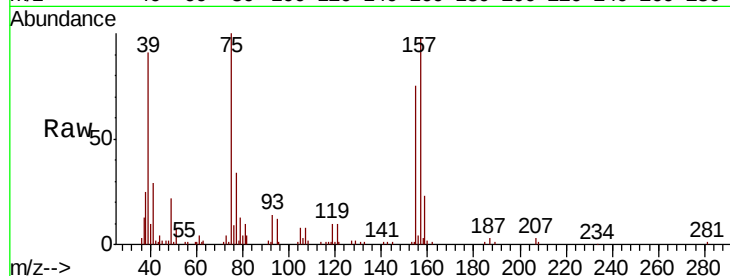
Tot Ion: 75 Resp: 53549

Ion Ratio Lower Upper

75 100

155 73.1 35.3 105.7

157 93.7 46.7 140.0



#95

Naphthalene

Concen: 75.373 ug/l

RT: 15.10 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN063313.D

Acq: 11 Sep 2020 14:42

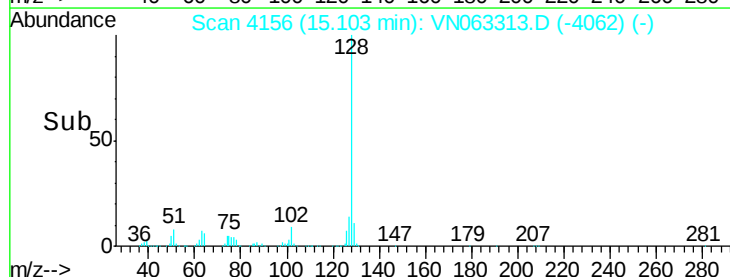
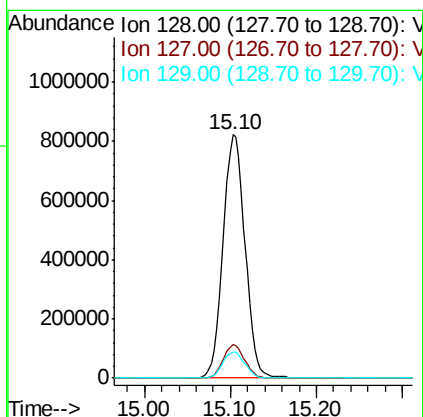
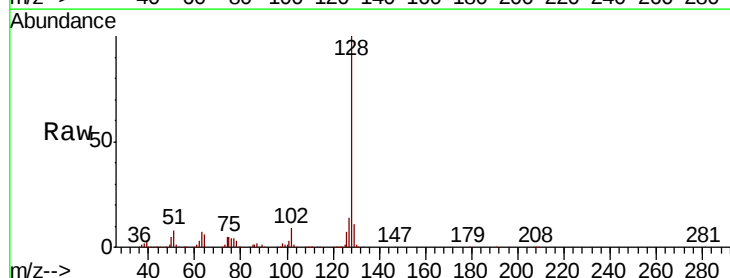
Tgt Ion: 128 Resp: 1464873

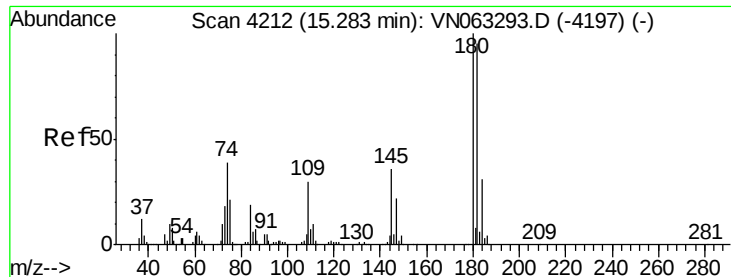
Ion Ratio Lower Upper

128 100

127 13.3 10.3 15.5

129 10.8 8.6 12.8

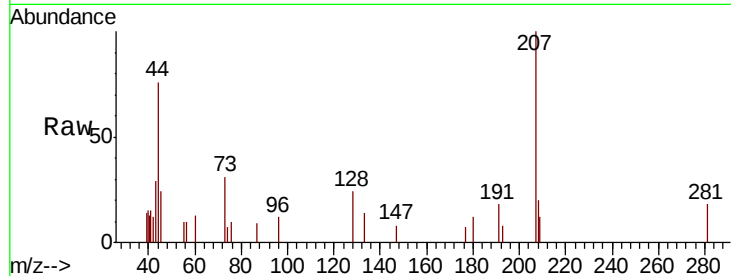




#96
 1,2,3-Trichlorobenzene
 Concen: Below Cal
 RT: 15.28 min Scan# 4212
 Delta R.T. -0.00 min
 Lab File: VN063313.D
 Acq: 11 Sep 2020 14:42

Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.4	142.3#
145	0.0	17.2	51.6#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

