

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV082319\
 Data File : VV012361.D
 Acq On : 23 Aug 2019 13:13
 Operator : SY/MD
 Sample : VSTD00535
 Misc : 25mL/MSVOA_V/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00535

Quant Time: Aug 24 00:34:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR082319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Aug 24 00:30:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	251884	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	240179	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	120057	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	62980	4.16	ug/L	0.00
7) Chloroethane-d5	1.58	69	46848	4.09	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	110271	4.38	ug/L	0.00
20) 2-Butanone-d5	3.96	46	170920	50.94	ug/L	0.00
24) Chloroform-d	4.40	84	143811	4.72	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	68562	4.76	ug/L	0.00
32) Benzene-d6	5.09	84	297448	4.90	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	88351	4.92	ug/L	0.00
41) Toluene-d8	7.36	98	273812	4.96	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.66	79	33434	4.88	ug/L	0.00
46) 2-Hexanone-d5	8.14	63	106754	49.56	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	58641	4.76	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	95481	4.72	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	110372	4.702	ug/L 100
3) Chloromethane	1.25	50	82291	3.969	ug/L 100
5) Vinyl chloride	1.32	62	81927	3.879	ug/L 100
6) Bromomethane	1.53	94	34642	3.001	ug/L 100
8) Chloroethane	1.60	64	40488	3.414	ug/L 100
9) Trichlorofluoromethane	1.77	101	111628	4.144	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	55474	4.048	ug/L 100
12) 1,1-Dichloroethene	2.14	96	52836	4.116	ug/L 100
13) Acetone	2.22	43	76692	38.355	ug/L 100
14) Carbon disulfide	2.32	76	158554	4.201	ug/L 100
15) Methyl Acetate	2.47	43	17465	3.493	ug/L 100
16) Methylene chloride	2.53	84	53624	3.887	ug/L 100
17) Methyl tert-butyl Ether	2.81	73	158522	4.457	ug/L 100
18) trans-1,2-Dichloroethene	2.78	96	78284	4.529	ug/L 100
19) 1,1-Dichloroethane	3.23	63	143901	4.563	ug/L 100
21) 2-Butanone	4.05	43	181532	44.546	ug/L 100
22) cis-1,2-Dichloroethene	3.96	96	82947	4.426	ug/L 100
23) Bromochloromethane	4.30	128	34439	4.328	ug/L 100
25) Chloroform	4.42	83	150357	4.223	ug/L 100
27) 1,2-Dichloroethane	5.18	62	84160	4.353	ug/L 100
29) 1,1,1-Trichloroethane	4.65	97	124328	4.407	ug/L 100
30) Cyclohexane	4.72	56	128084	4.542	ug/L 100
31) Carbon tetrachloride	4.87	117	110373	4.343	ug/L 100
33) Benzene	5.14	78	323461	4.623	ug/L 100
34) Trichloroethene	5.96	95	84577	4.457	ug/L 100
35) Methylcyclohexane	6.17	83	130563	4.473	ug/L 100
37) 1,2-Dichloropropane	6.22	63	80947	4.624	ug/L 100
38) Bromodichloromethane	6.55	83	99052	4.415	ug/L 100
39) cis-1,3-Dichloropropene	7.07	75	103101	4.360	ug/L 100
40) 4-Methyl-2-pentanone	7.28	43	448139	47.013	ug/L 100

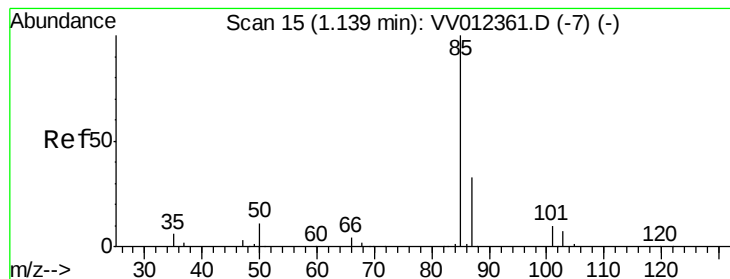
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV082319\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	336469	4.555	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	82992	4.403	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	52396	4.524	ug/L	100
47) Tetrachloroethene	8.02	164	68979	4.446	ug/L	100
48) 2-Hexanone	8.19	43	324210	48.243	ug/L	100
49) Dibromochloromethane	8.29	129	62933	4.390	ug/L	100
50) 1,2-Dibromoethane	8.40	107	49145	4.406	ug/L	100
51) Chlorobenzene	8.92	112	208532	4.365	ug/L	100
52) Ethylbenzene	9.05	91	356331	4.524	ug/L	100
53) m,p-xylene	9.18	106	134287	4.468	ug/L	100
54) o-xylene	9.59	106	128770	4.519	ug/L	100
55) Styrene	9.60	104	222468	4.672	ug/L	100
56) Isopropylbenzene	9.97	105	346460	4.529	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	56671	4.271	ug/L	100
59) 1,2,3-Trichloropropane	10.32	75	43537	4.440	ug/L	100
61) Bromoform	9.77	173	33203	4.483	ug/L	100
62) 1,3-Dichlorobenzene	11.23	146	166704	4.370	ug/L	100
63) 1,4-Dichlorobenzene	11.32	146	163718	4.304	ug/L	100
65) 1,2-Dichlorobenzene	11.69	146	152651	4.358	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.48	75	8376	3.776	ug/L	100
67) 1,3,5-Trichlorobenzene	12.69	180	126332	4.367	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	90210	4.233	ug/L	100
69) Naphthalene	13.55	128	117378	3.898	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	85971	4.292	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 4.702 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012361.D

Acq: 23 Aug 2019 13:13

Instrument :

MSVOA_V

ClientSampleId :

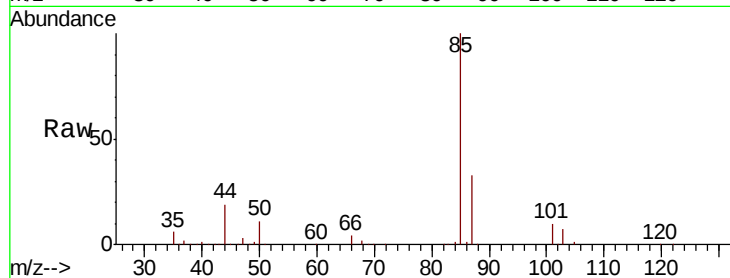
VSTD00535

Tgt Ion: 85 Resp: 110372

Ion Ratio Lower Upper

85 100

87 32.3 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

1.14

100000

80000

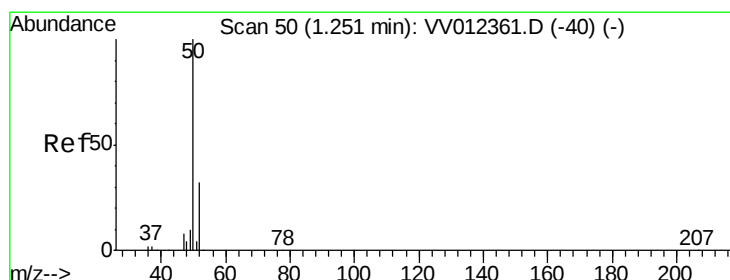
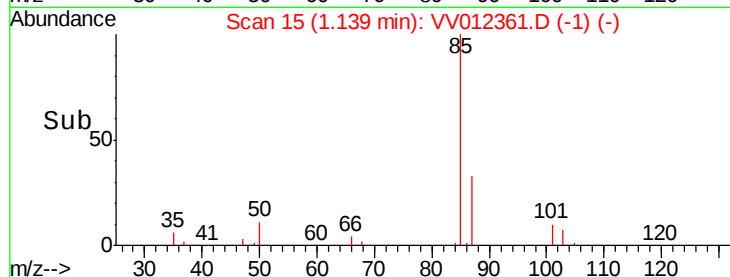
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 3.969 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV012361.D

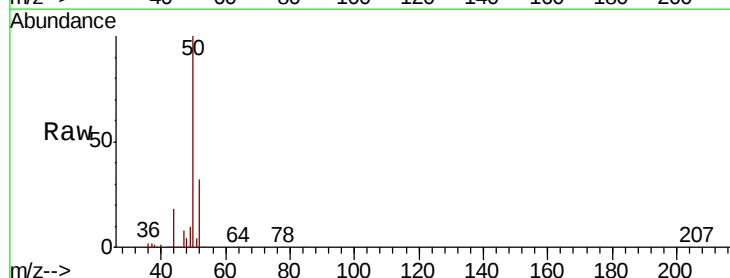
Acq: 23 Aug 2019 13:13

Tgt Ion: 50 Resp: 82291

Ion Ratio Lower Upper

50 100

52 31.7 22.2 41.2



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0

1.25

80000

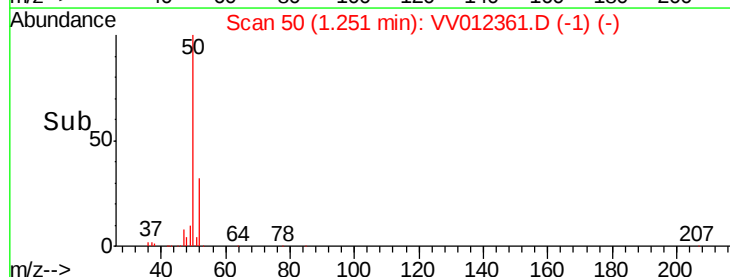
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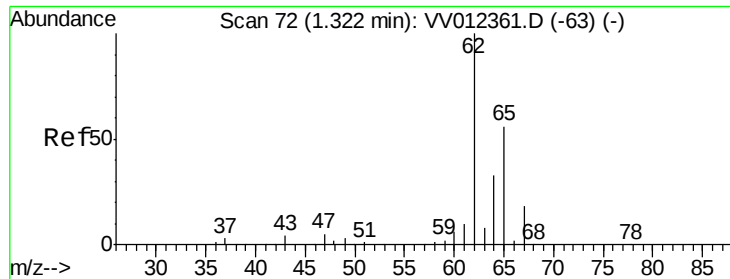
40000

20000

0

Time-->





#5

Vinyl chloride

Concen: 3.879 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012361.D

Acq: 23 Aug 2019 13:13

Instrument :

MSVOA_V

ClientSampleId :

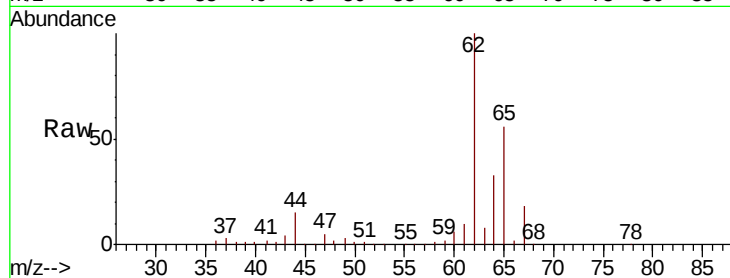
VSTD00535

Tgt Ion: 62 Resp: 81927

Ion Ratio Lower Upper

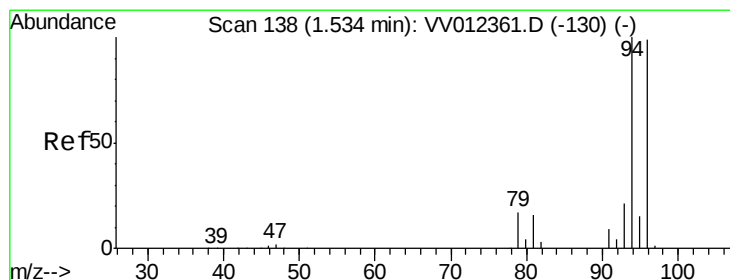
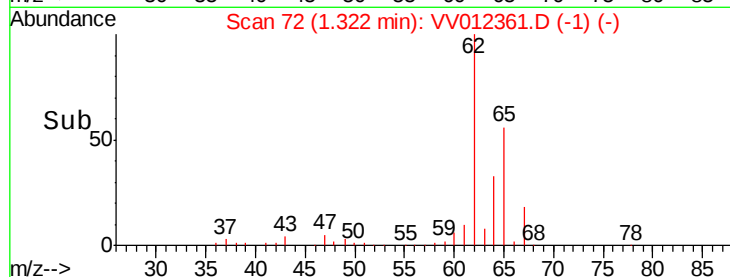
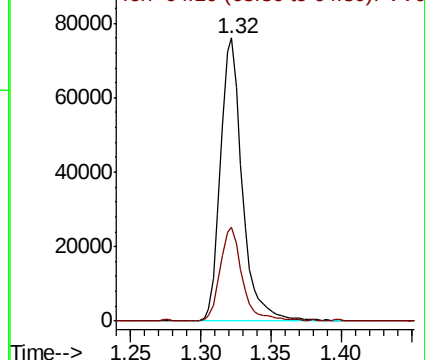
62 100

64 33.2 23.2 43.2



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#6

Bromomethane

Concen: 3.001 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV012361.D

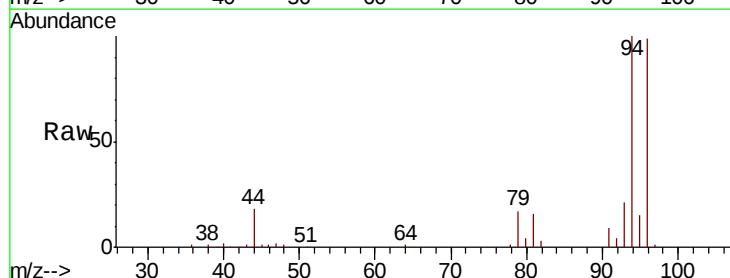
Acq: 23 Aug 2019 13:13

Tgt Ion: 94 Resp: 34642

Ion Ratio Lower Upper

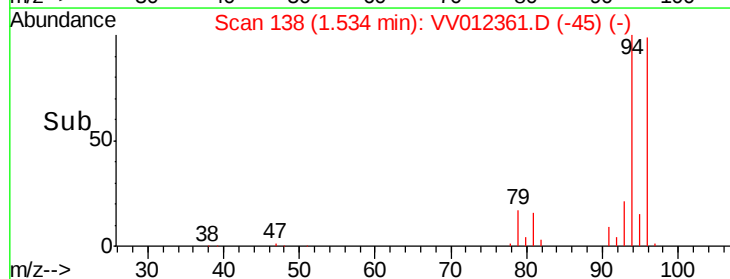
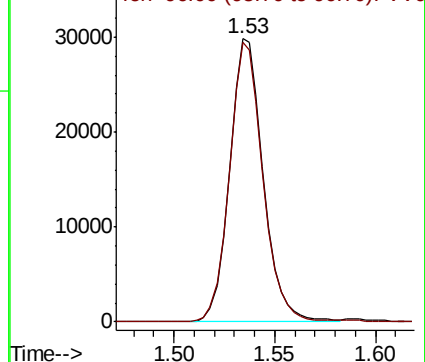
94 100

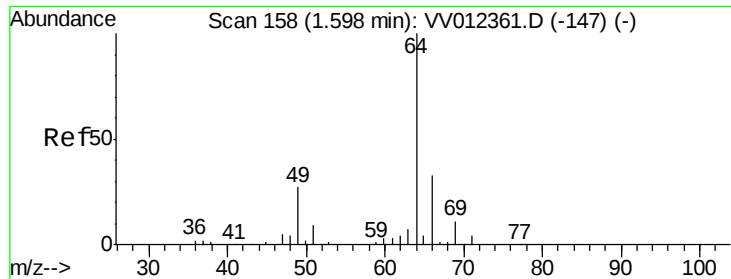
96 98.9 69.2 128.6



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 3.414 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV012361.D

Acq: 23 Aug 2019 13:13

Instrument :

MSVOA_V

ClientSampleId :

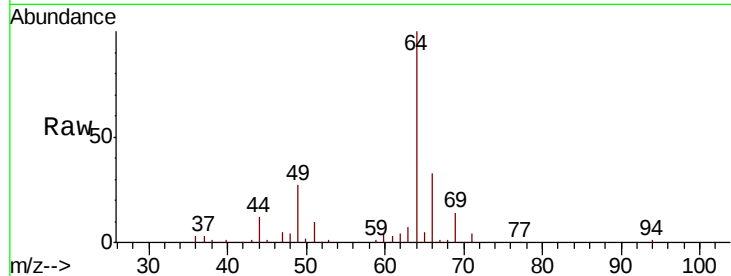
VSTD00535

Tgt Ion: 64 Resp: 40488

Ion Ratio Lower Upper

64 100

66 33.1 23.2 43.0



Abundance Ion 64.10 (63.80 to 64.80): VV012361.D (-147) (-)

Ion 66.05 (65.75 to 66.75): VV012361.D (-147) (-)

1.60

40000

30000

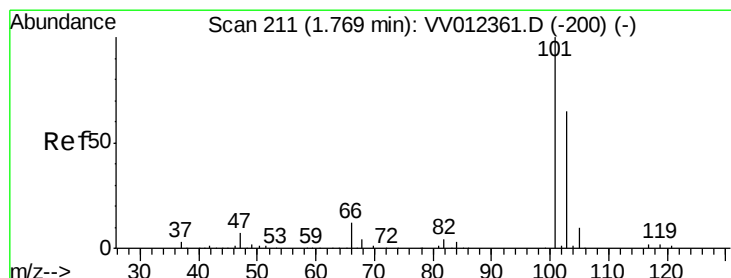
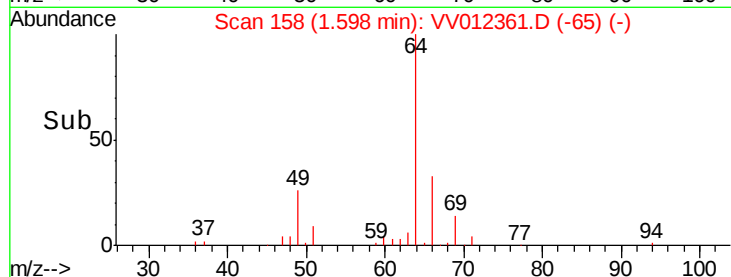
20000

10000

0

1.55 1.60 1.65

Time-->



#9

Trichlorofluoromethane

Concen: 4.144 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV012361.D

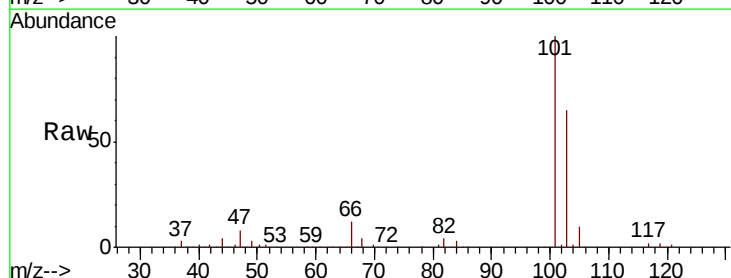
Acq: 23 Aug 2019 13:13

Tgt Ion: 101 Resp: 111628

Ion Ratio Lower Upper

101 100

103 64.0 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VV012361.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV012361.D (-200) (-)

1.77

100000

80000

60000

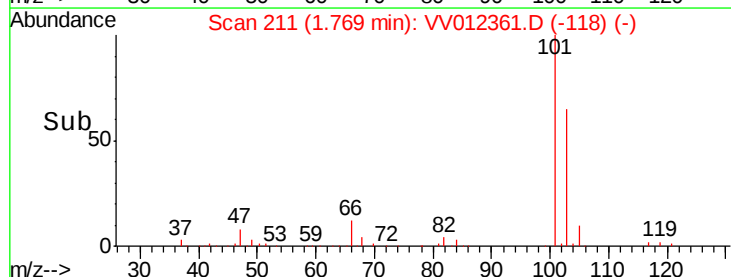
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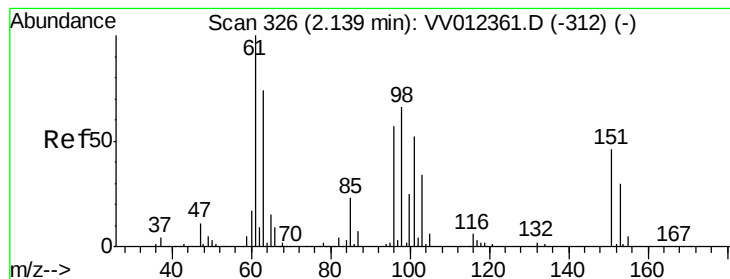
20000

0

1.70 1.75 1.80 1.85

Time-->





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 4.048 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012361.D

Acq: 23 Aug 2019 13:13

Instrument :

MSVOA_V

ClientSampleId :

VSTD00535

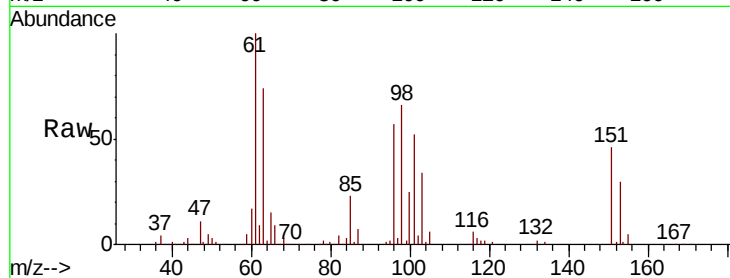
Tgt Ion: 101 Resp: 55474

Ion Ratio Lower Upper

101 100

85 43.2 34.6 51.8

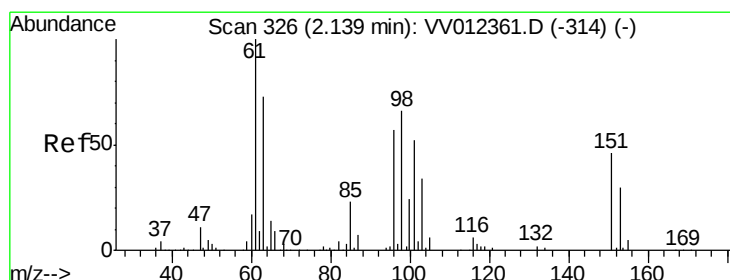
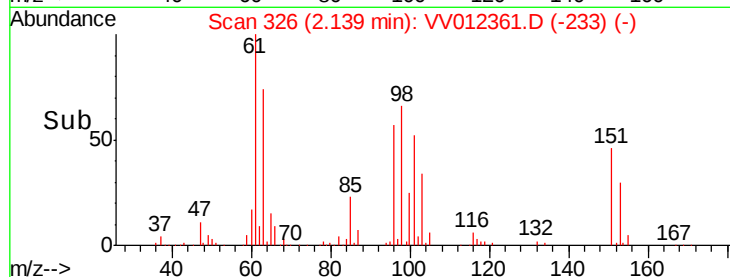
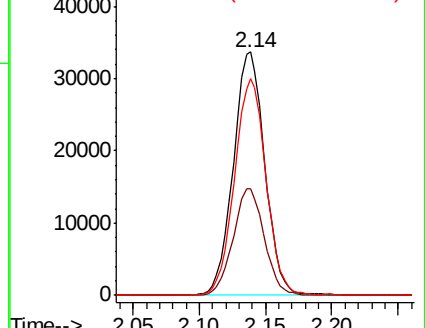
151 89.0 71.2 106.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.116 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012361.D

Acq: 23 Aug 2019 13:13

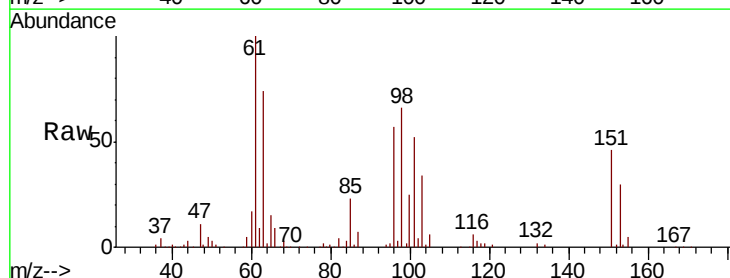
Tgt Ion: 96 Resp: 52836

Ion Ratio Lower Upper

96 100

61 174.7 122.3 227.1

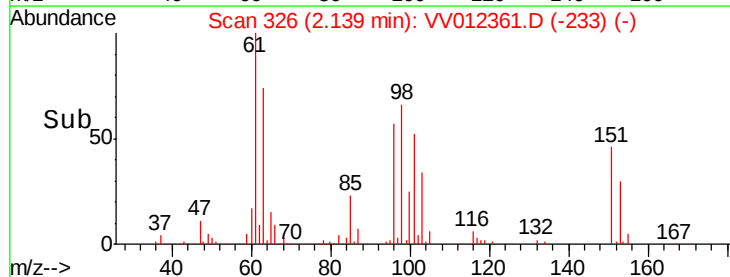
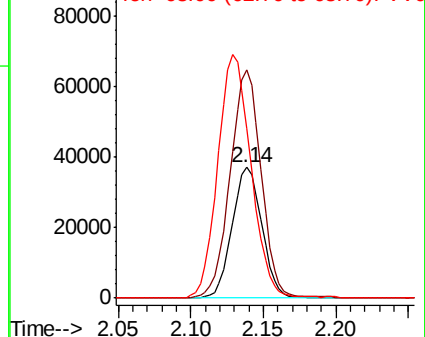
63 129.4 90.6 168.2

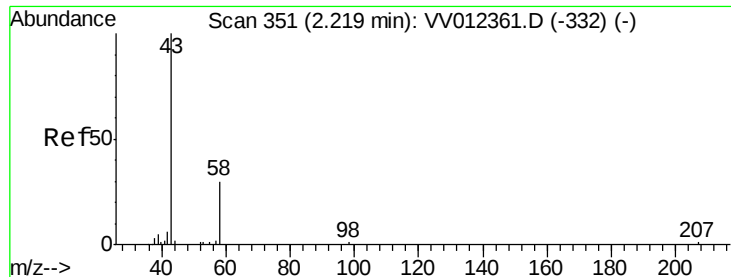


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 38.355 ug/L

RT: 2.22 min Scan# 351

Delta R.T. 0.00 min

Lab File: VV012361.D

Acq: 23 Aug 2019 13:13

Instrument :

MSVOA_V

ClientSampleId :

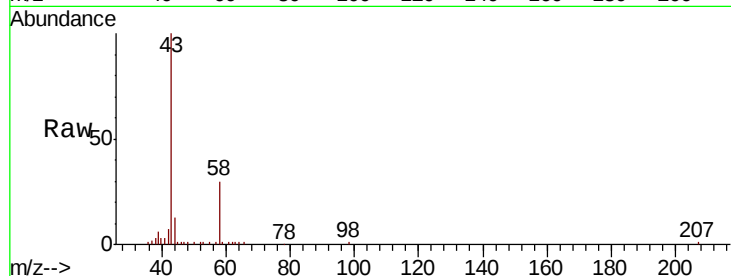
VSTD00535

Tgt Ion: 43 Resp: 76692

Ion Ratio Lower Upper

43 100

58 31.4 0.0 62.8



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

2.22

20000

15000

10000

5000

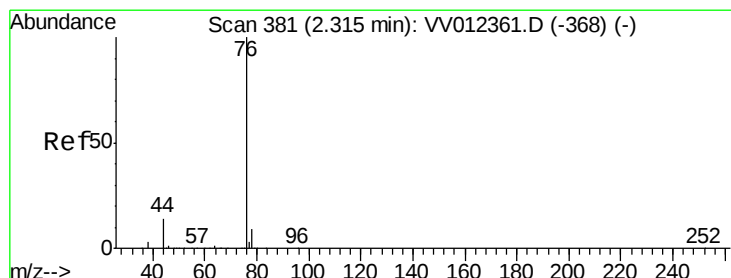
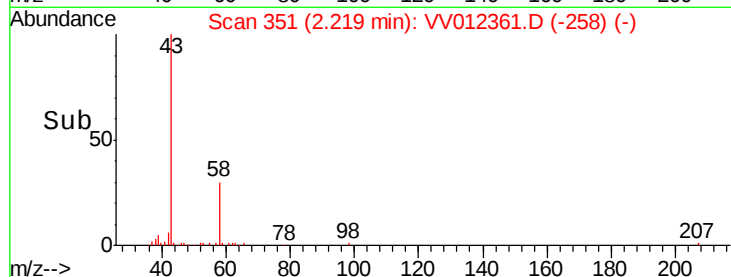
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Time-->

2.10

2.20

2.30



#14

Carbon disulfide

Concen: 4.201 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV012361.D

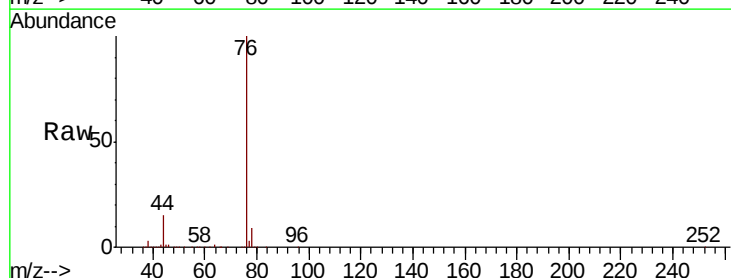
Acq: 23 Aug 2019 13:13

Tgt Ion: 76 Resp: 158554

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.32

120000

100000

80000

60000

40000

20000

0

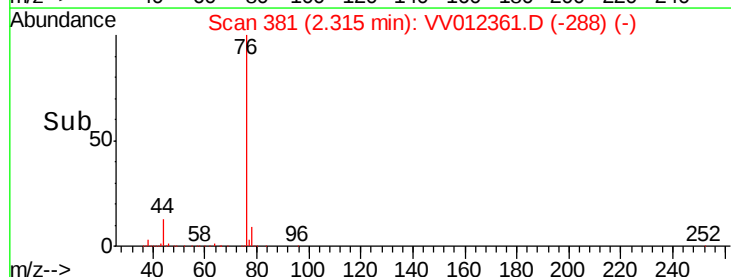
Time-->

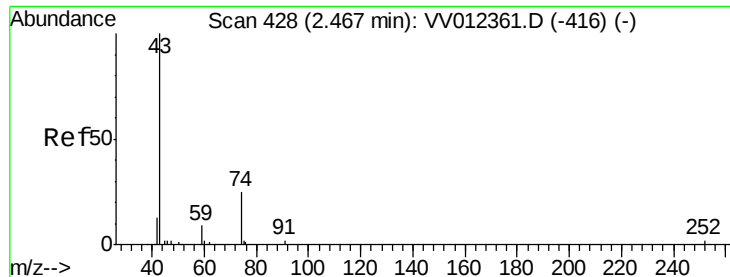
2.25

2.30

2.35

2.40

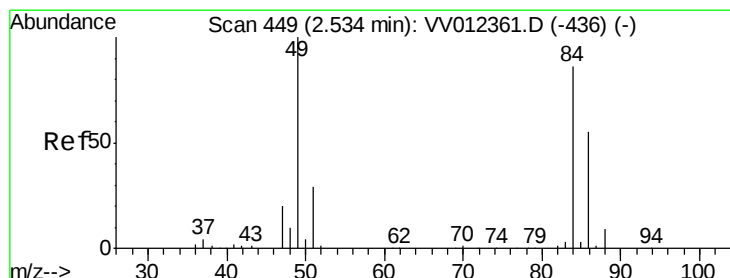
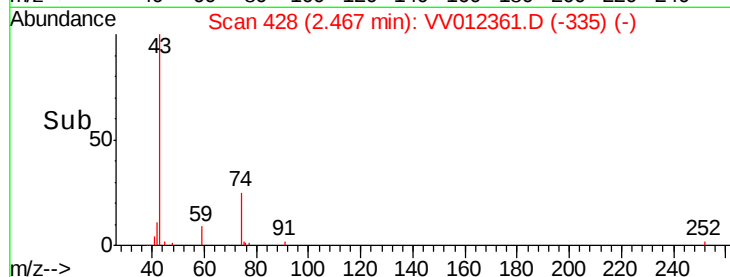
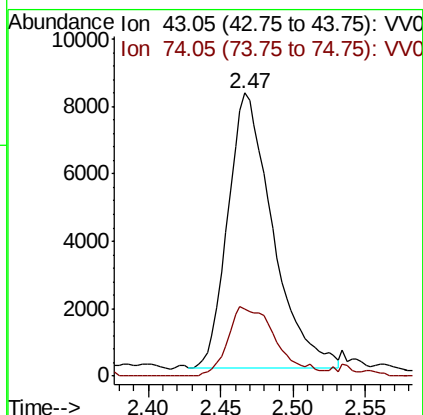
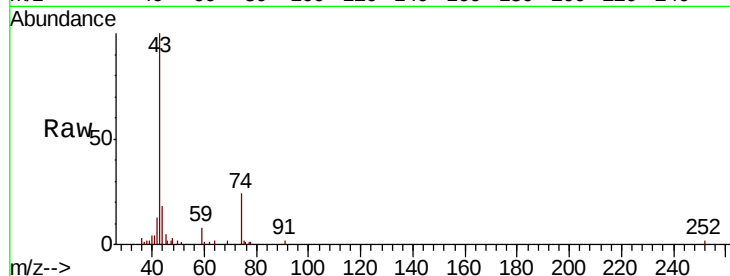




#15
Methyl Acetate
Concen: 3.493 ug/L
RT: 2.47 min Scan# 428
Delta R.T. 0.00 min
Lab File: VV012361.D
Acq: 23 Aug 2019 13:13

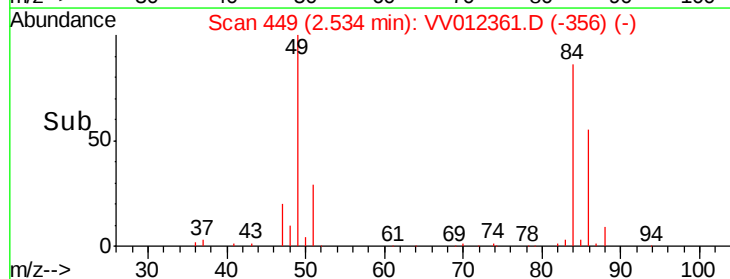
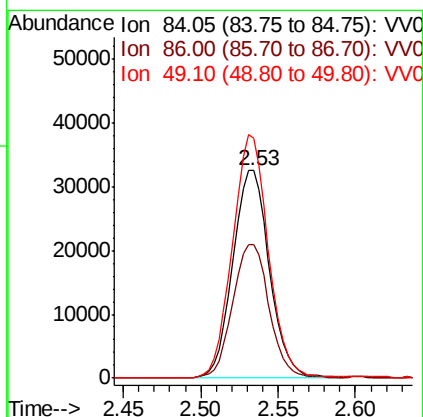
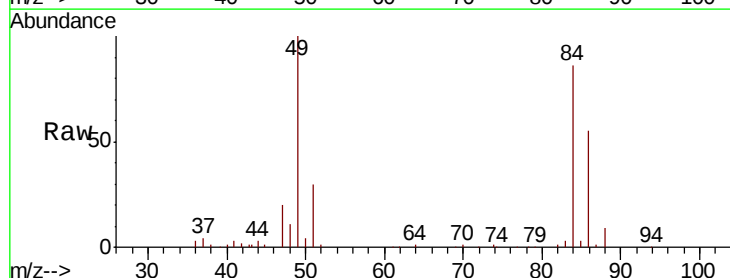
Instrument :
MSVOA_V
ClientSampleId :
VSTD00535

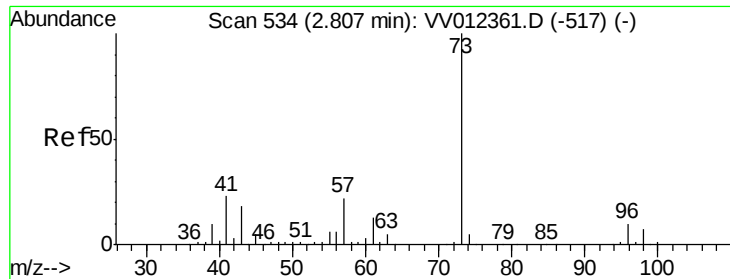
Tgt Ion: 43 Resp: 17465
Ion Ratio Lower Upper
43 100
74 27.2 21.8 32.6



#16
Methylene chloride
Concen: 3.887 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV012361.D
Acq: 23 Aug 2019 13:13

Tgt Ion: 84 Resp: 53624
Ion Ratio Lower Upper
84 100
86 64.2 44.9 83.5
49 115.9 81.1 150.7

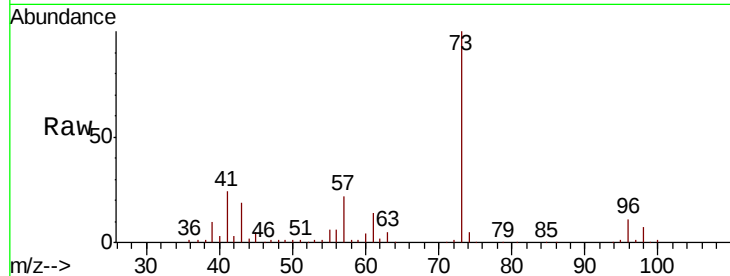




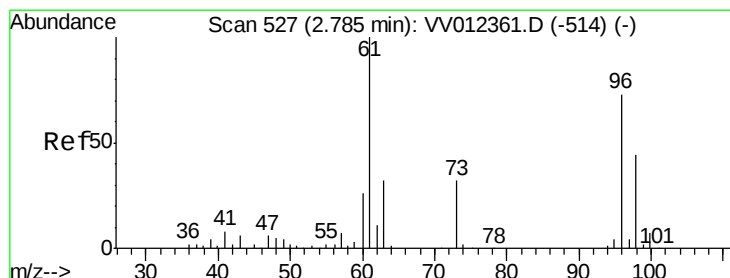
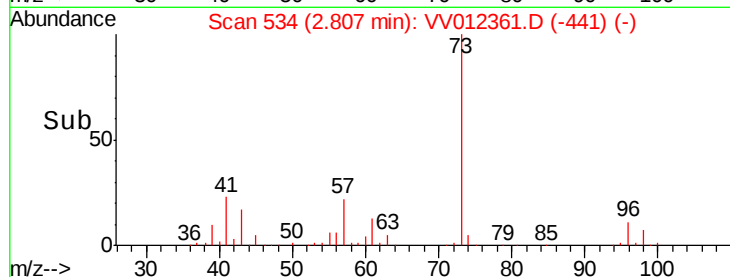
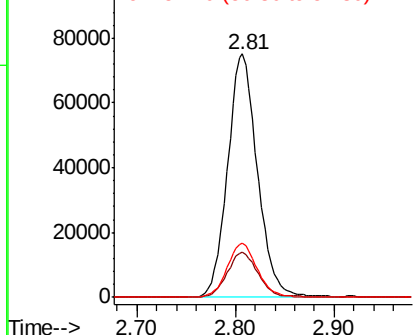
#17
Methyl tert-butyl Ether
Concen: 4.457 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV012361.D
Acq: 23 Aug 2019 13:13

Instrument :
MSVOA_V
ClientSampleId :
VSTD00535

Tgt Ion: 73 Resp: 158522
Ion Ratio Lower Upper
73 100
43 18.8 15.0 22.6
57 22.5 18.0 27.0

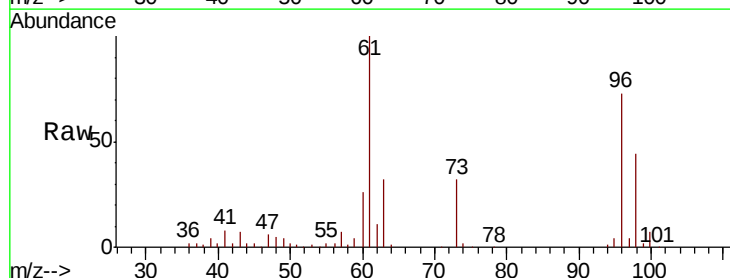


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

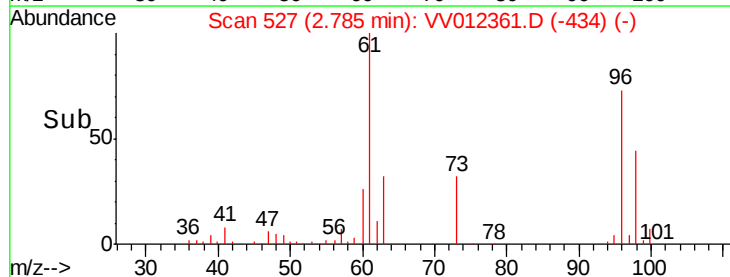
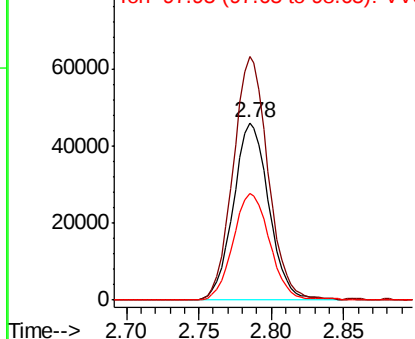


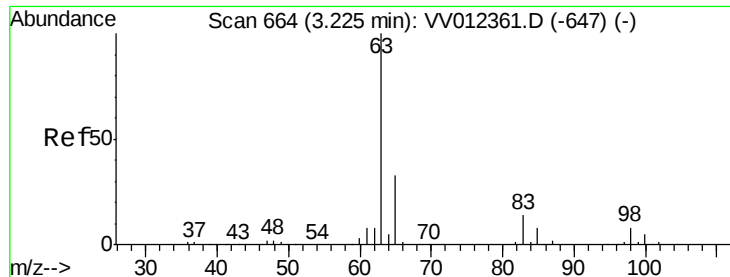
#18
trans-1,2-Dichloroethene
Concen: 4.529 ug/L
RT: 2.78 min Scan# 527
Delta R.T. 0.00 min
Lab File: VV012361.D
Acq: 23 Aug 2019 13:13

Tgt Ion: 96 Resp: 78284
Ion Ratio Lower Upper
96 100
61 137.2 96.0 178.4
98 60.2 42.1 78.3



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0

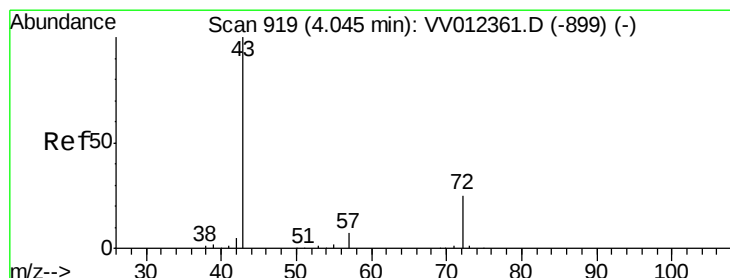
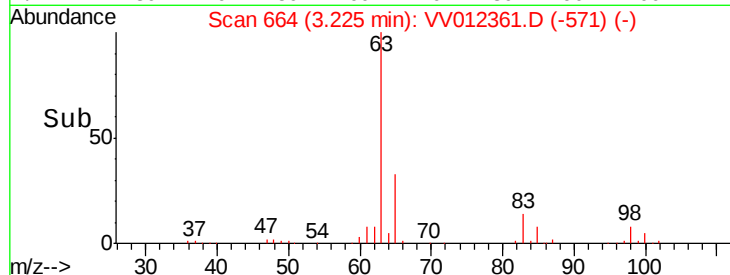
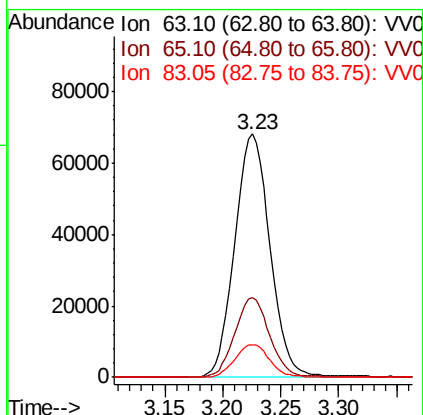
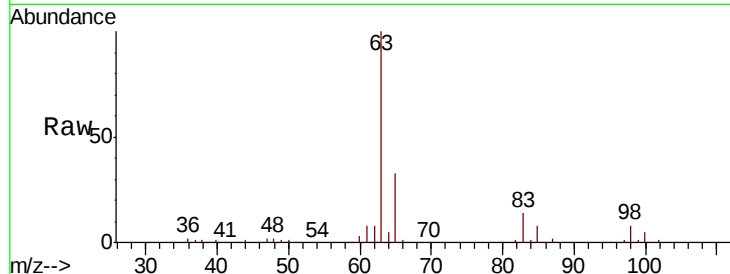




#19
 1,1-Dichloroethane
 Concen: 4.563 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. 0.00 min
 Lab File: VV012361.D
 Acq: 23 Aug 2019 13:13

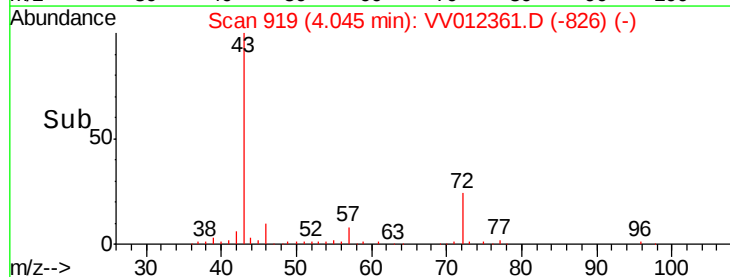
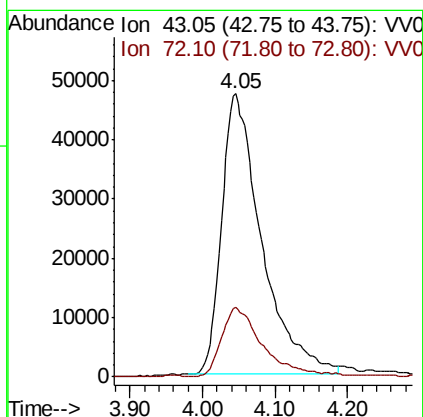
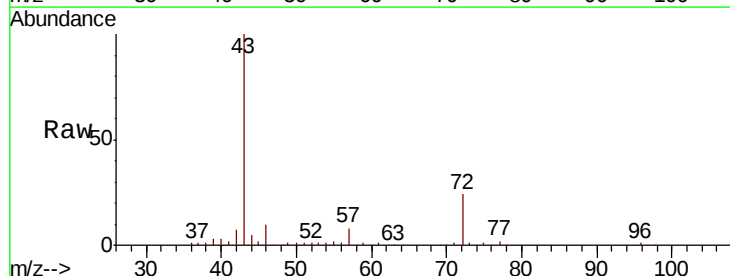
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00535

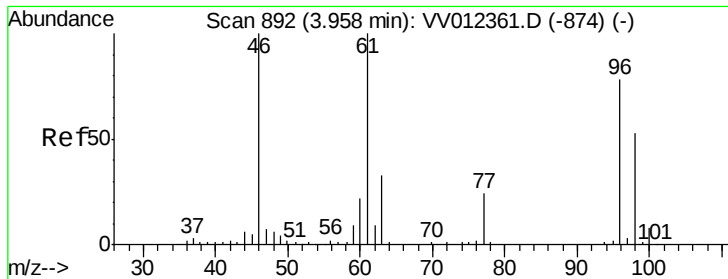
Tgt Ion: 63 Resp: 143901
 Ion Ratio Lower Upper
 63 100
 65 33.0 23.1 42.9
 83 13.5 9.4 17.6



#21
 2-Butanone
 Concen: 44.546 ug/L
 RT: 4.05 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: VV012361.D
 Acq: 23 Aug 2019 13:13

Tgt Ion: 43 Resp: 181532
 Ion Ratio Lower Upper
 43 100
 72 24.4 12.2 36.6



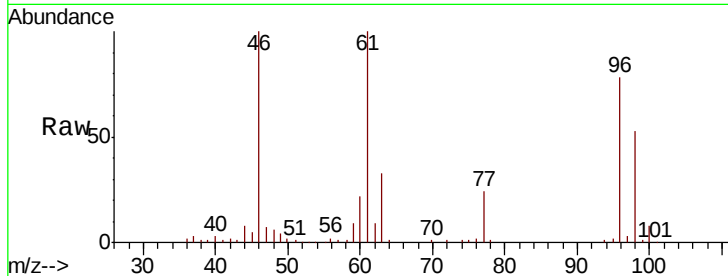


#22

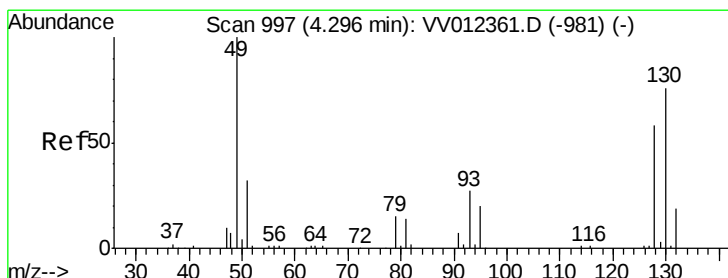
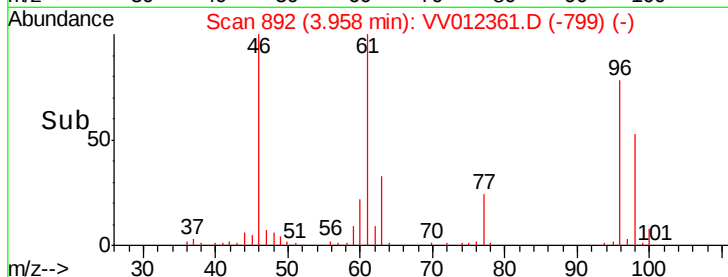
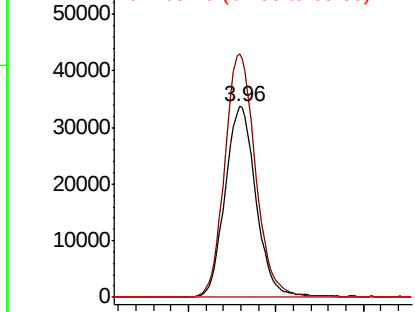
cis-1,2-Dichloroethene
 Concen: 4.426 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: VV012361.D
 Acq: 23 Aug 2019 13:13

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00535

Tgt Ion: 96 Resp: 82947
 Ion Ratio Lower Upper
 96 100
 61 127.7 89.4 166.0
 68 0.0 0.0 0.0



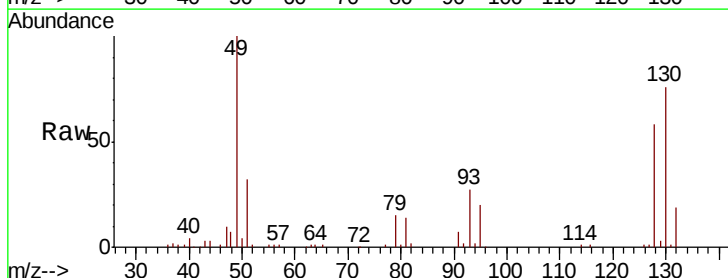
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



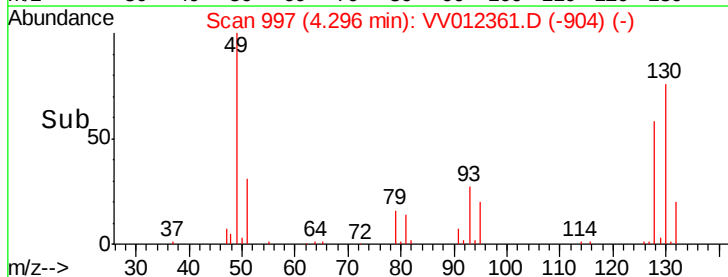
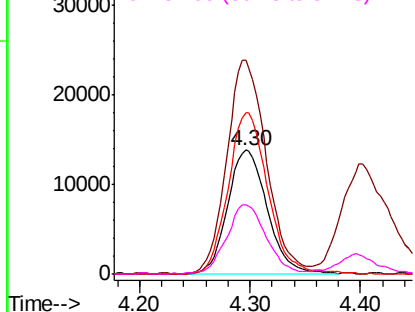
#23

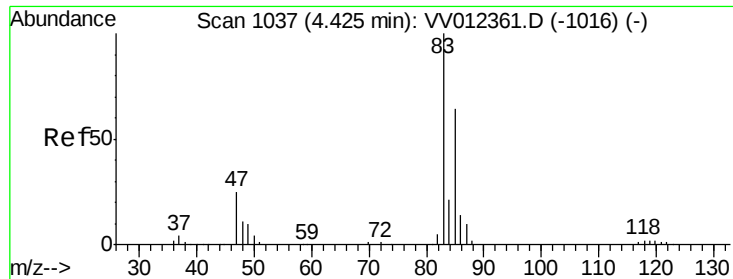
Bromochloromethane
 Concen: 4.328 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. 0.00 min
 Lab File: VV012361.D
 Acq: 23 Aug 2019 13:13

Tgt Ion: 128 Resp: 34439
 Ion Ratio Lower Upper
 128 100
 49 172.4 120.7 224.1
 130 130.7 91.5 169.9
 51 55.4 44.3 66.5



Abundance Ion 127.90 (127.60 to 128.60): V
 Ion 49.10 (48.80 to 49.80): VV0
 Ion 129.95 (129.65 to 130.65): V
 Ion 51.05 (50.75 to 51.75): VV0

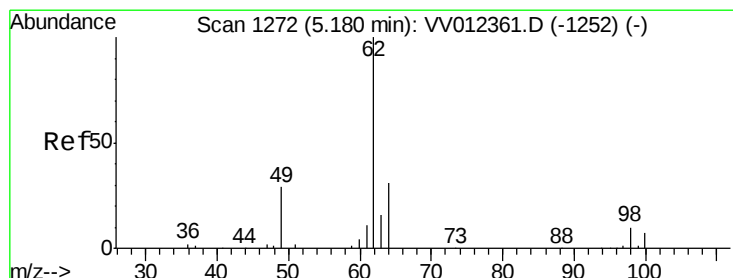
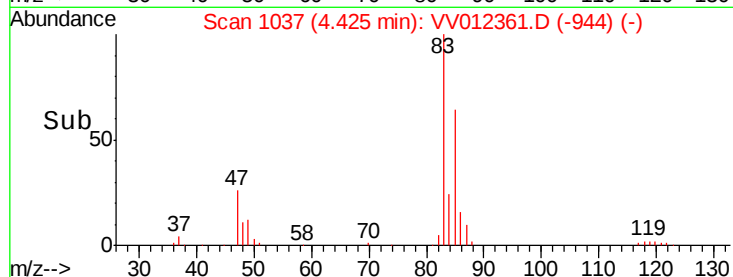
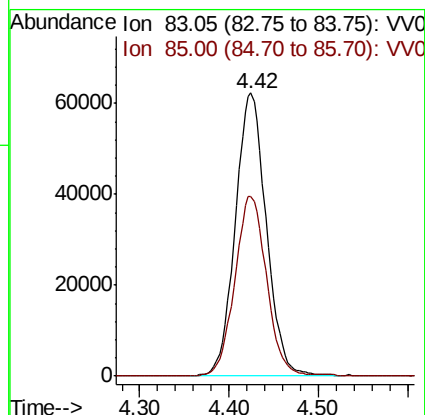
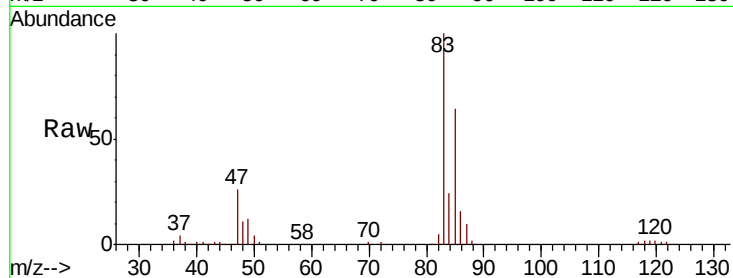




#25
Chloroform
Concen: 4.223 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV012361.D
Acq: 23 Aug 2019 13:13

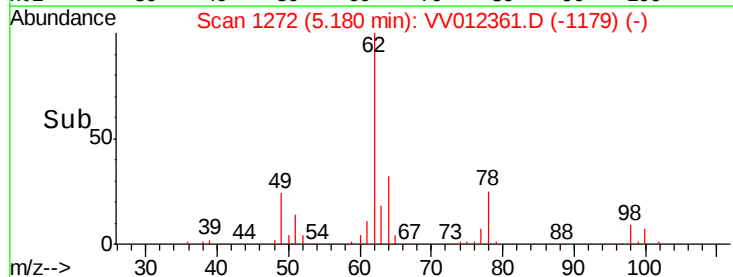
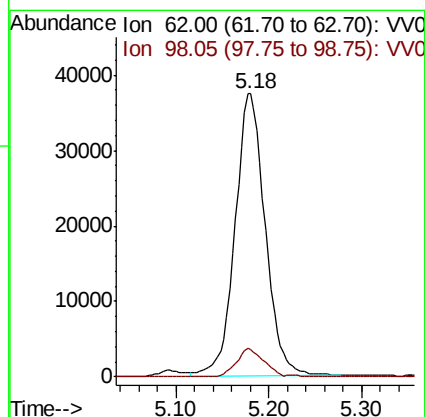
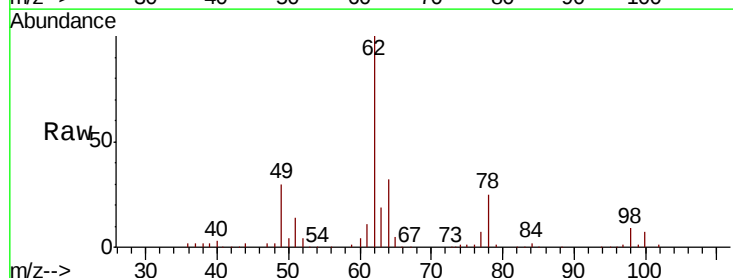
Instrument :
MSVOA_V
ClientSampleId :
VSTD00535

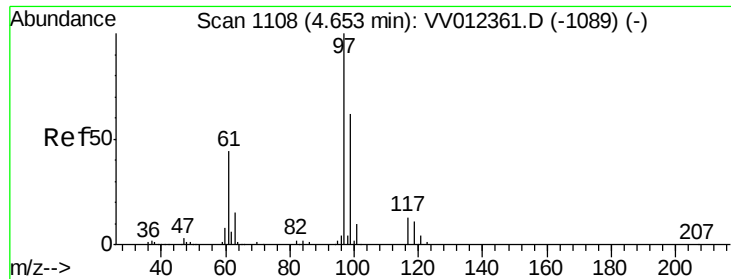
Tgt Ion: 83 Resp: 150357
Ion Ratio Lower Upper
83 100
85 63.7 44.6 82.8



#27
1,2-Dichloroethane
Concen: 4.353 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV012361.D
Acq: 23 Aug 2019 13:13

Tgt Ion: 62 Resp: 84160
Ion Ratio Lower Upper
62 100
98 9.5 7.6 11.4

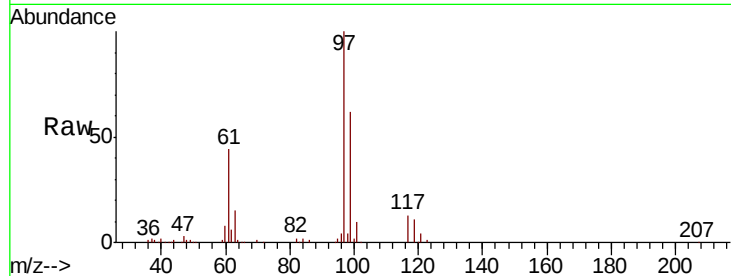




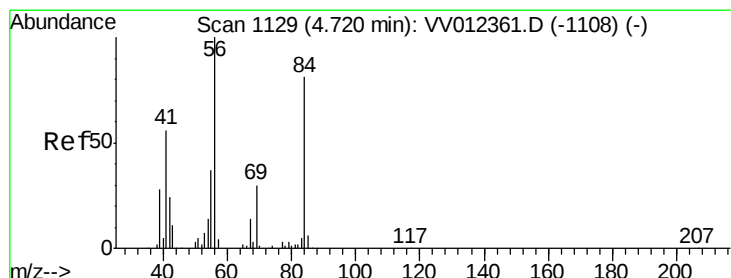
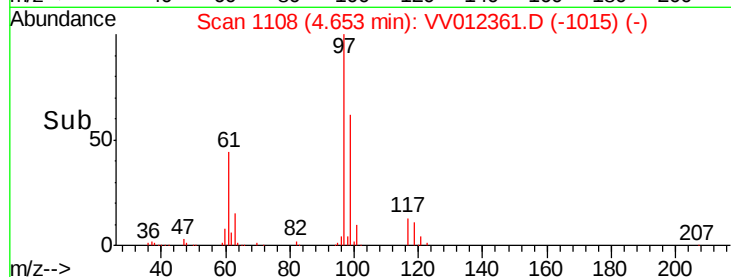
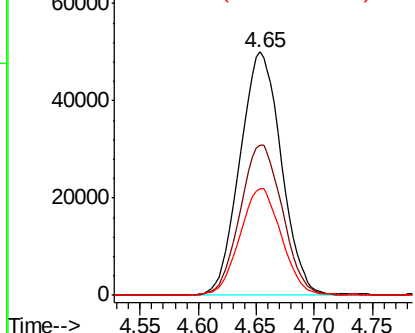
#29
 1,1,1-Trichloroethane
 Concen: 4.407 ug/L
 RT: 4.65 min Scan# 1108
 Delta R.T. 0.00 min
 Lab File: VV012361.D
 Acq: 23 Aug 2019 13:13

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00535

Tgt Ion: 97 Resp: 124328
 Ion Ratio Lower Upper
 97 100
 99 63.1 50.5 75.7
 61 44.3 35.4 53.2

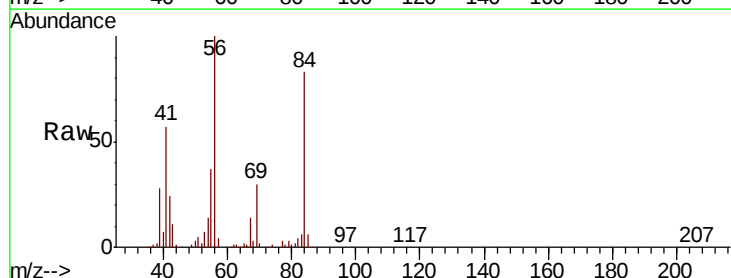


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 61.05 (60.75 to 61.75): VV0

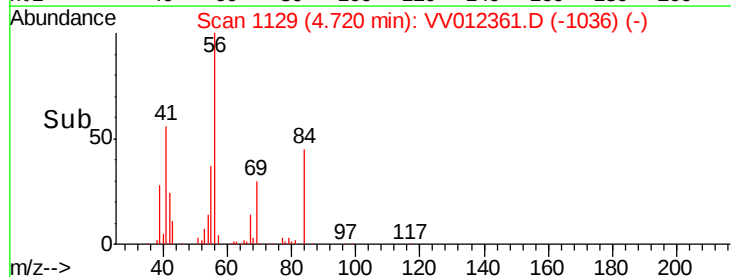
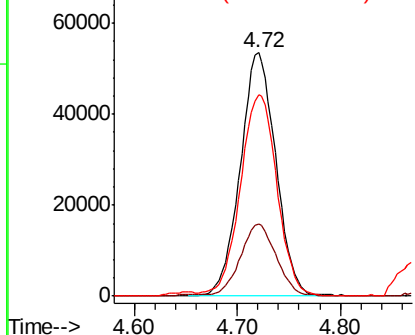


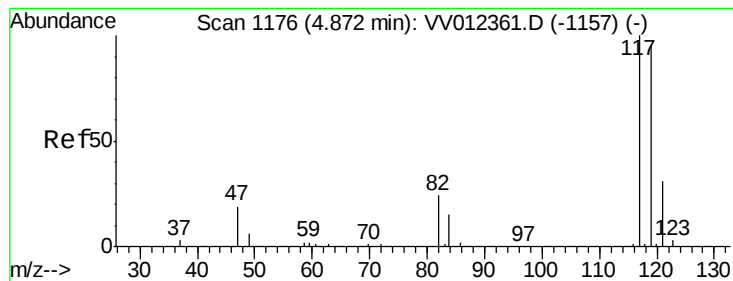
#30
 Cyclohexane
 Concen: 4.542 ug/L
 RT: 4.72 min Scan# 1129
 Delta R.T. 0.00 min
 Lab File: VV012361.D
 Acq: 23 Aug 2019 13:13

Tgt Ion: 56 Resp: 128084
 Ion Ratio Lower Upper
 56 100
 69 30.0 24.0 36.0
 84 84.9 67.9 101.9



Abundance Ion 56.10 (55.80 to 56.80): VV0
 Ion 69.15 (68.85 to 69.85): VV0
 Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 4.343 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV012361.D

Acq: 23 Aug 2019 13:13

Instrument :

MSVOA_V

ClientSampleId :

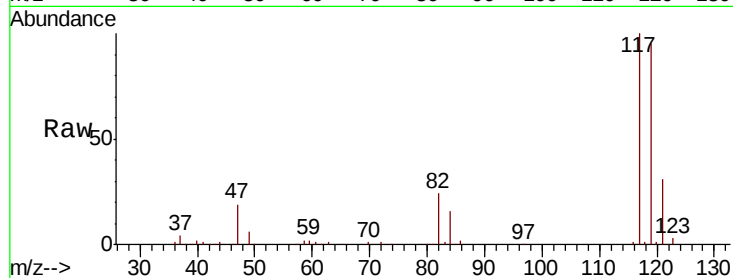
VSTD00535

Tgt Ion:117 Resp: 110373

Ion Ratio Lower Upper

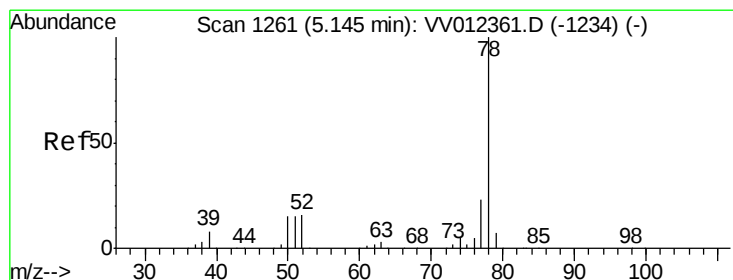
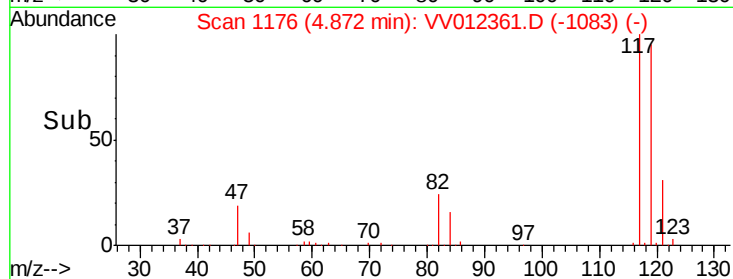
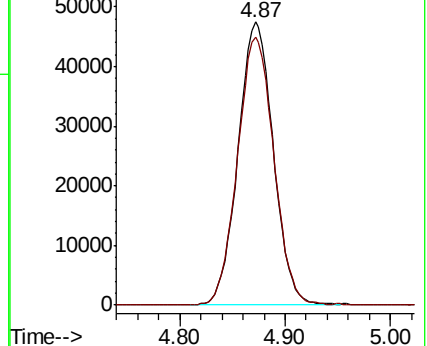
117 100

119 97.3 77.8 116.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.623 ug/L

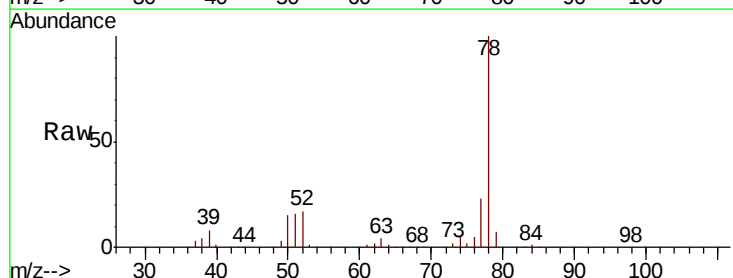
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

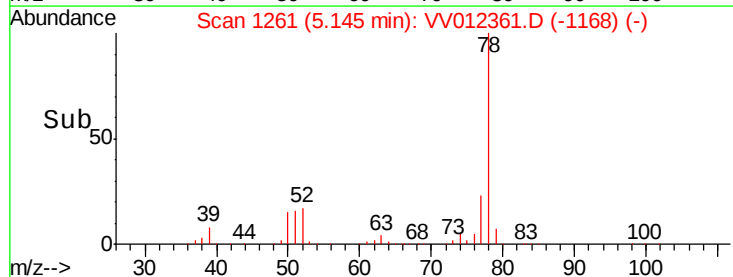
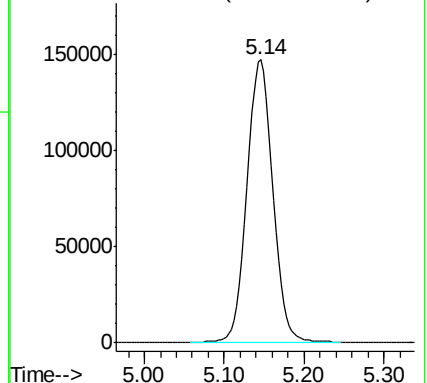
Lab File: VV012361.D

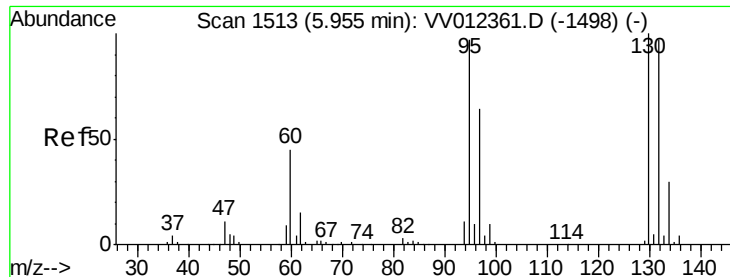
Acq: 23 Aug 2019 13:13

Tgt Ion: 78 Resp: 323461



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 4.457 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV012361.D

Acq: 23 Aug 2019 13:13

Instrument :

MSVOA_V

ClientSampleId :

VSTD00535

Tgt Ion: 95 Resp: 84577

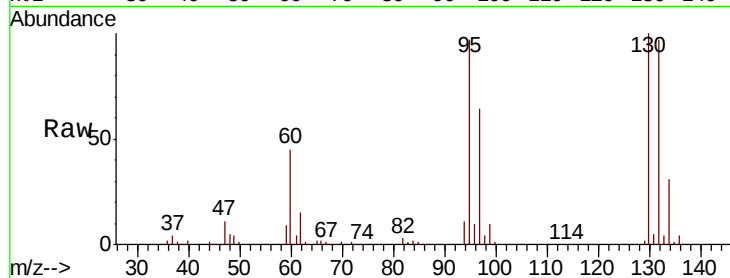
Ion Ratio Lower Upper

95 100

97 66.2 46.3 86.1

132 100.5 70.3 130.7

130 103.5 72.4 134.5

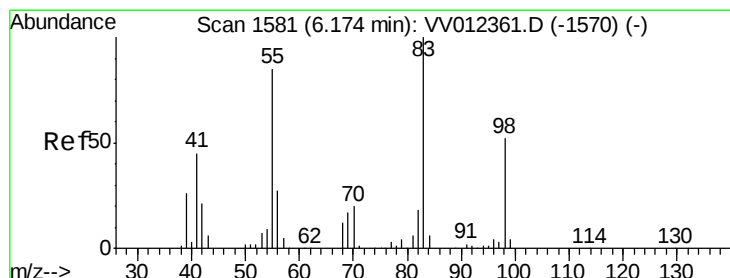
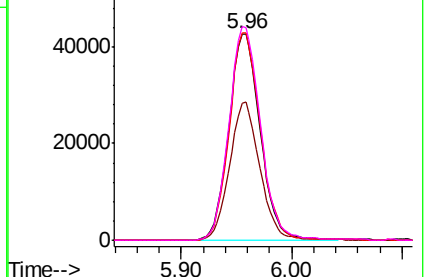
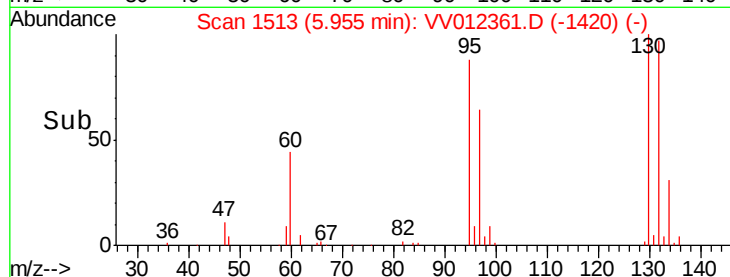


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



#35

Methylcyclohexane

Concen: 4.473 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV012361.D

Acq: 23 Aug 2019 13:13

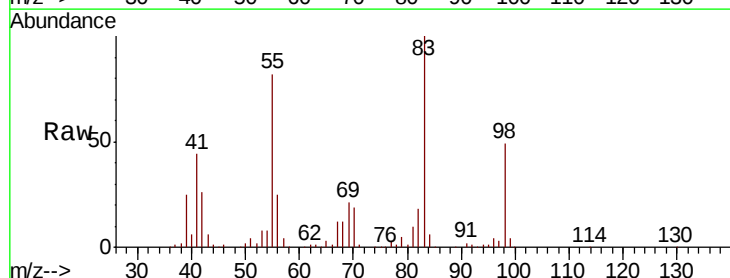
Tgt Ion: 83 Resp: 130563

Ion Ratio Lower Upper

83 100

55 80.8 64.6 97.0

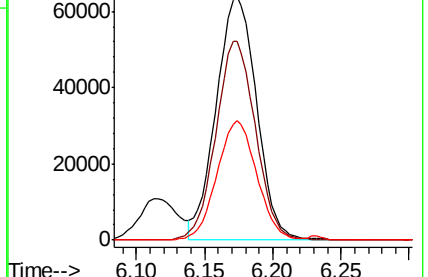
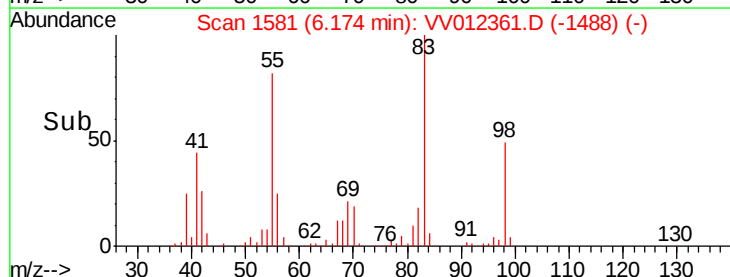
98 48.7 39.0 58.4

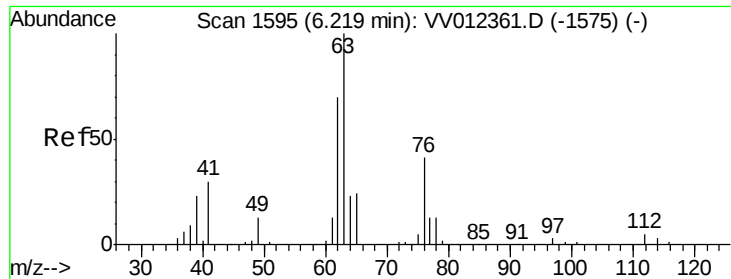


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

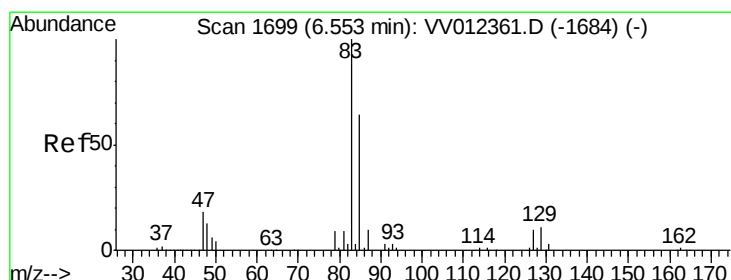
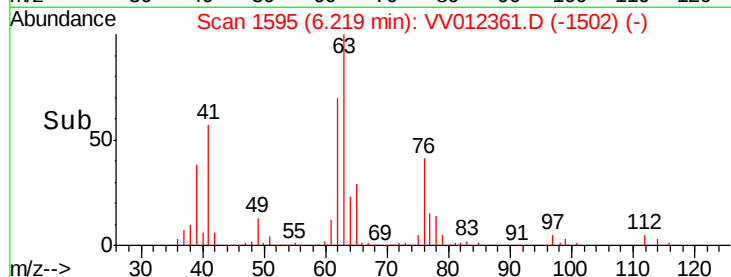
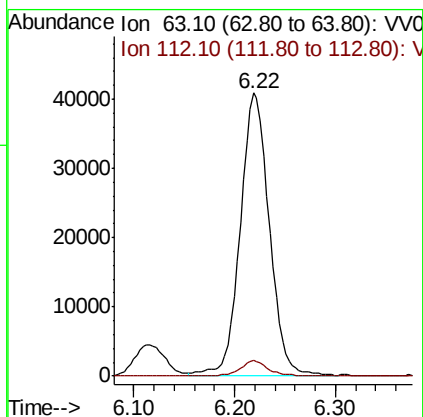
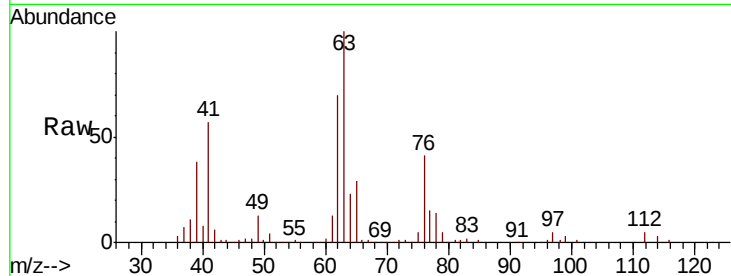




#37
 1,2-Dichloropropane
 Concen: 4.624 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV012361.D
 Acq: 23 Aug 2019 13:13

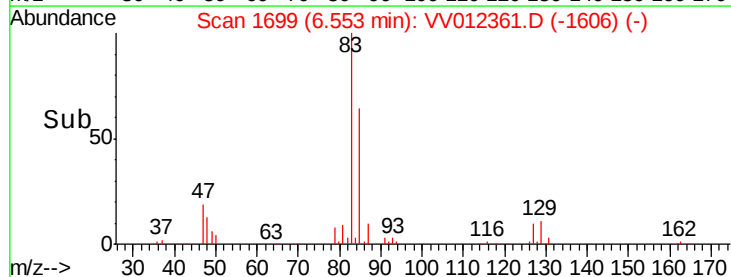
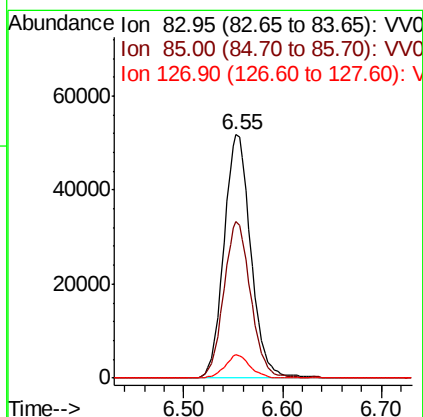
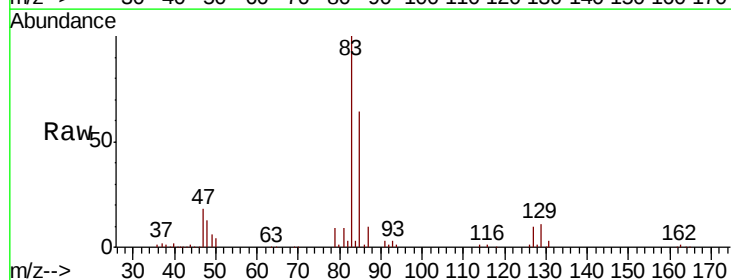
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00535

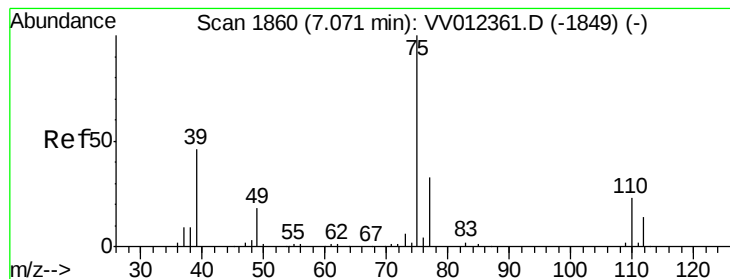
Tgt Ion: 63 Resp: 80947
 Ion Ratio Lower Upper
 63 100
 112 5.2 4.2 6.2



#38
 Bromodichloromethane
 Concen: 4.415 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV012361.D
 Acq: 23 Aug 2019 13:13

Tgt Ion: 83 Resp: 99052
 Ion Ratio Lower Upper
 83 100
 85 64.3 45.0 83.6
 127 9.6 7.7 11.5



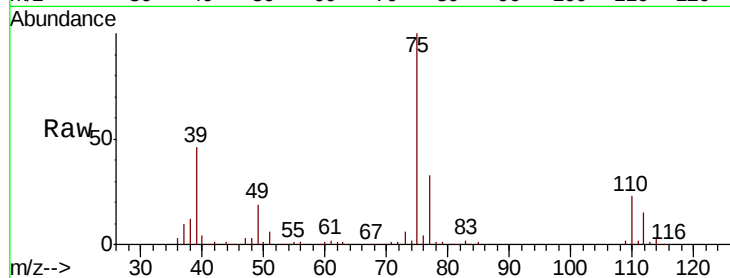


#39

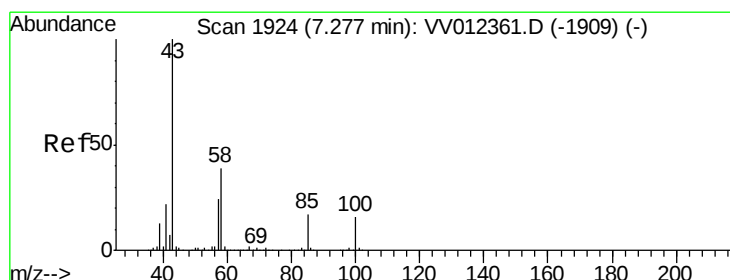
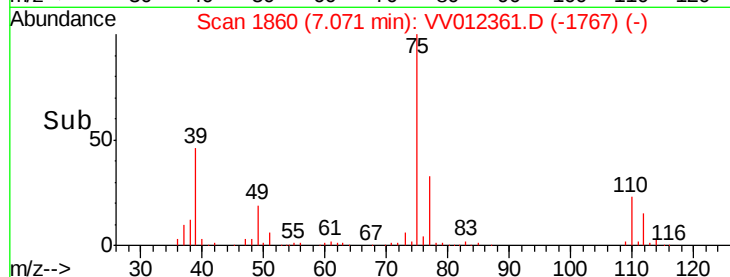
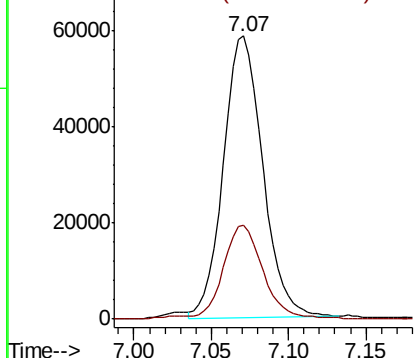
cis-1,3-Dichloropropene
 Concen: 4.360 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV012361.D
 Acq: 23 Aug 2019 13:13

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00535

Tgt Ion: 75 Resp: 103101
 Ion Ratio Lower Upper
 75 100
 77 33.2 23.2 43.2



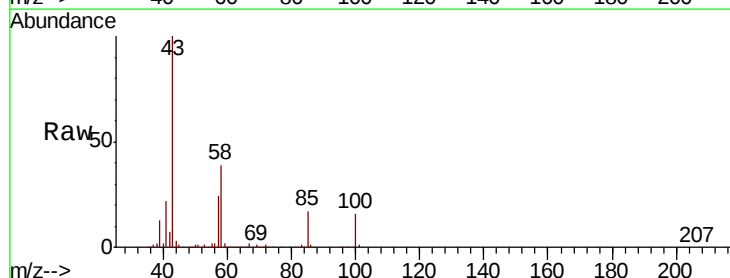
Abundance Ion 75.05 (74.75 to 75.75): VV0
 Ion 77.05 (76.75 to 77.75): VV0



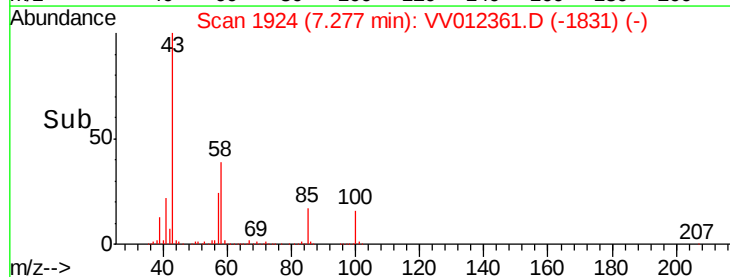
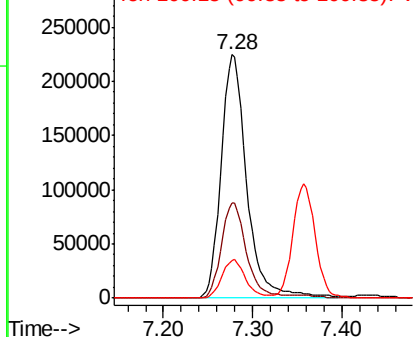
#40

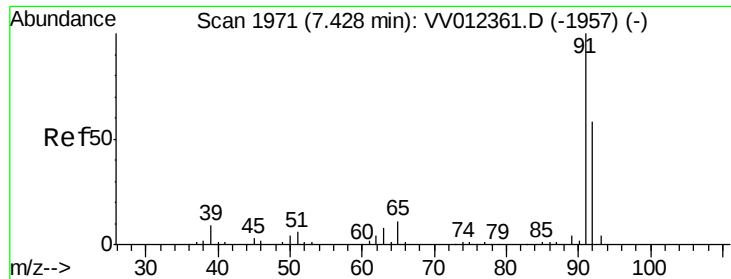
4-Methyl-2-pentanone
 Concen: 47.013 ug/L
 RT: 7.28 min Scan# 1924
 Delta R.T. 0.00 min
 Lab File: VV012361.D
 Acq: 23 Aug 2019 13:13

Tgt Ion: 43 Resp: 448139
 Ion Ratio Lower Upper
 43 100
 58 38.4 30.7 46.1
 100 14.7 11.8 17.6



Abundance Ion 43.05 (42.75 to 43.75): VV0
 Ion 58.05 (57.75 to 58.75): VV0
 Ion 100.15 (99.85 to 100.85): VV0





#42

Toluene

Concen: 4.555 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV012361.D

Acq: 23 Aug 2019 13:13

Instrument :

MSVOA_V

ClientSampleId :

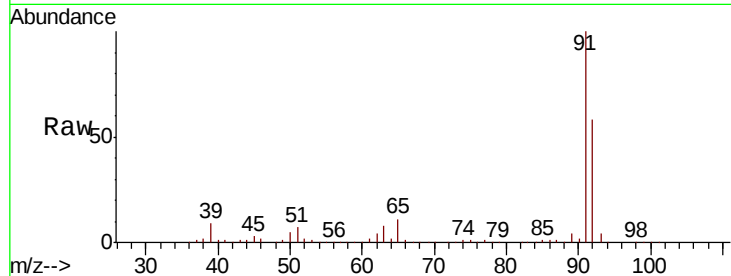
VSTD00535

Tgt Ion: 91 Resp: 336469

Ion Ratio Lower Upper

91 100

92 58.1 40.7 75.5



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.43

200000

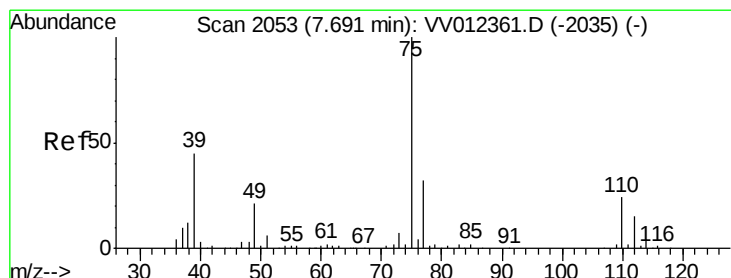
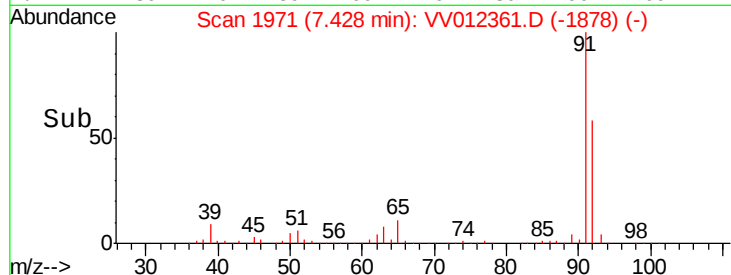
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.403 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV012361.D

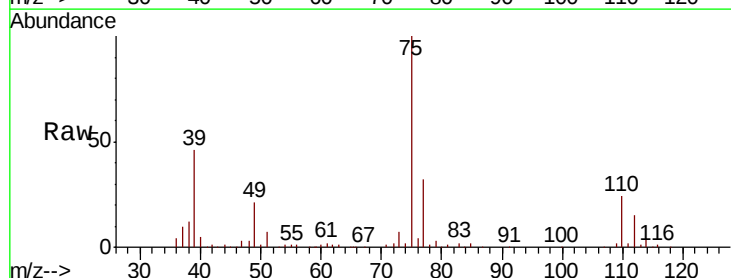
Acq: 23 Aug 2019 13:13

Tgt Ion: 75 Resp: 82992

Ion Ratio Lower Upper

75 100

77 32.3 22.6 42.0



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.69

50000

40000

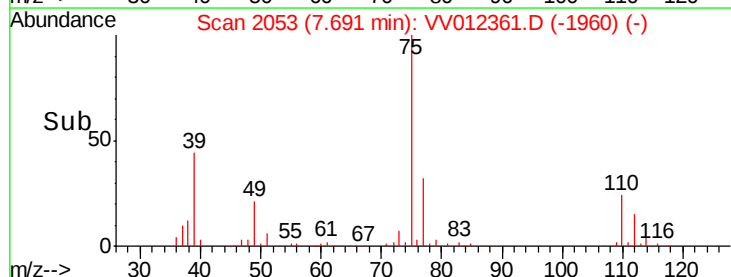
30000

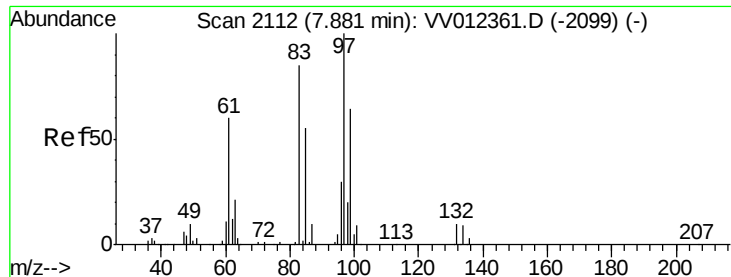
20000

10000

0

Time-->

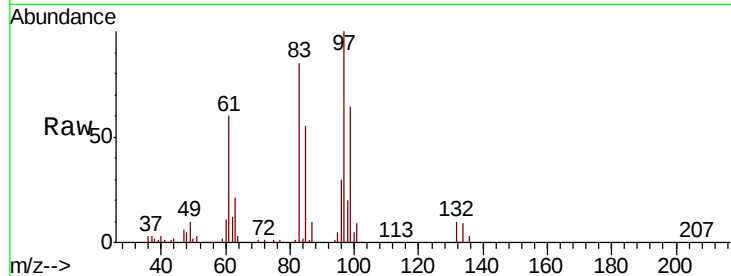




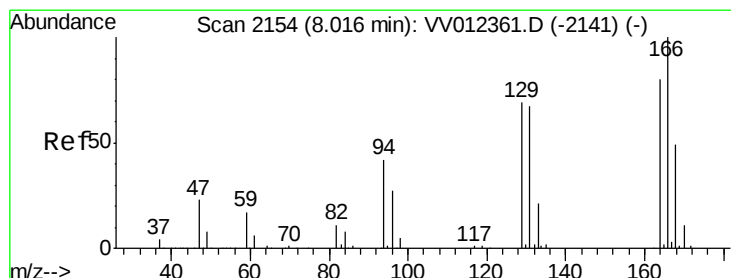
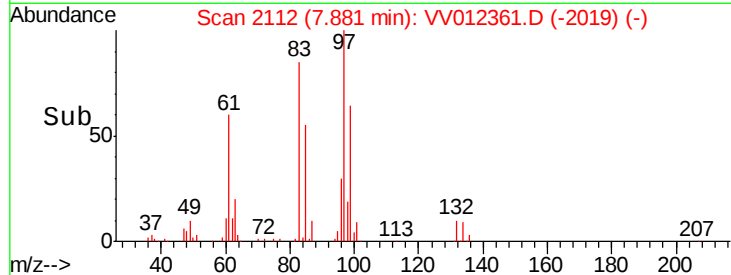
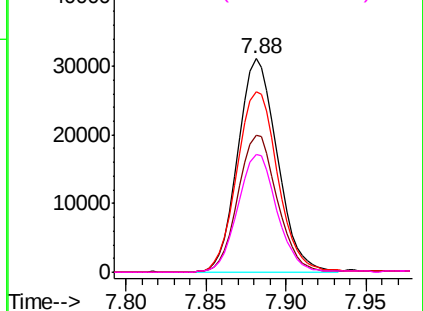
#45
 1,1,2-Trichloroethane
 Concen: 4.524 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV012361.D
 Acq: 23 Aug 2019 13:13

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00535

Tgt Ion:	97	Resp:	52396
Ion	Ratio	Lower	Upper
97	100		
99	64.3	45.0	83.6
83	84.7	59.3	110.1
85	55.4	38.8	72.0

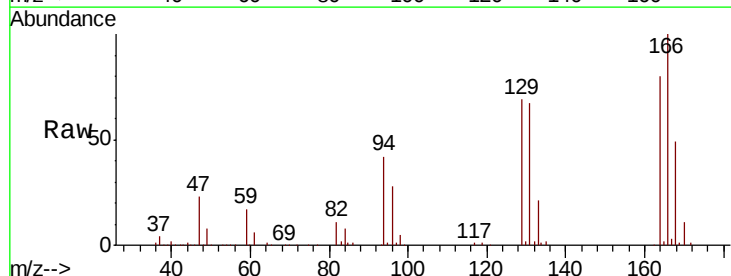


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

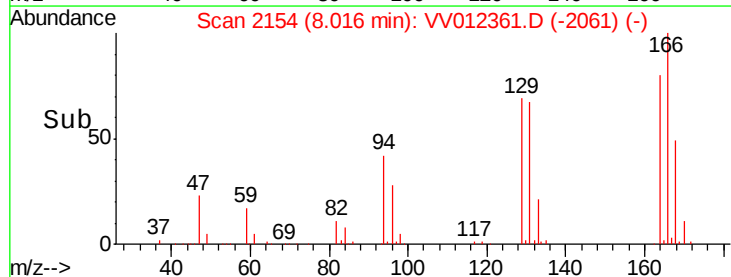
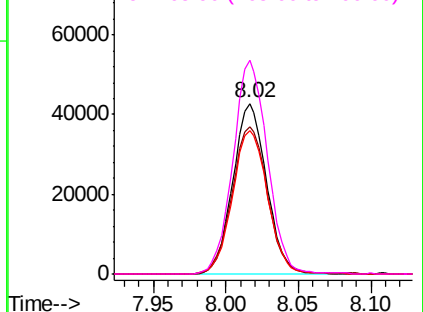


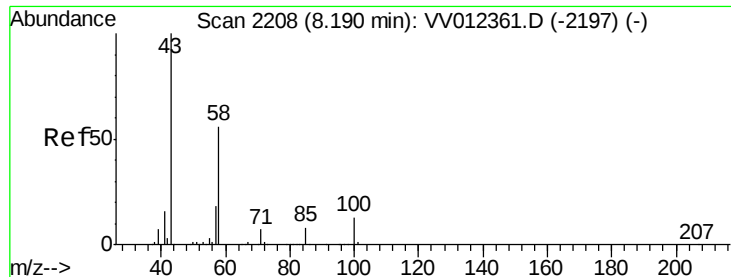
#47
 Tetrachloroethene
 Concen: 4.446 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV012361.D
 Acq: 23 Aug 2019 13:13

Tgt Ion:	164	Resp:	68979
Ion	Ratio	Lower	Upper
164	100		
129	86.6	60.6	112.6
131	84.0	58.8	109.2
166	125.2	87.6	162.8



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

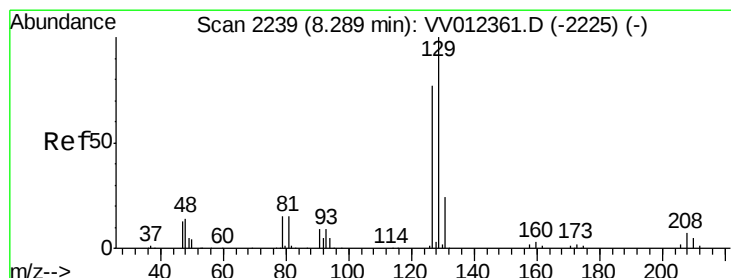
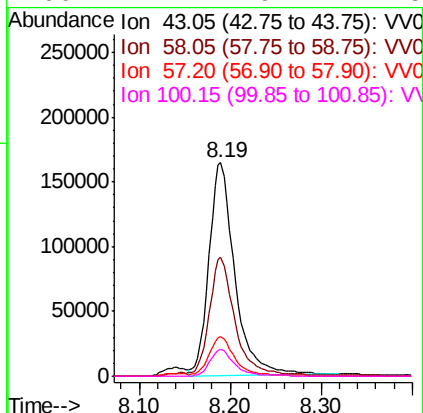
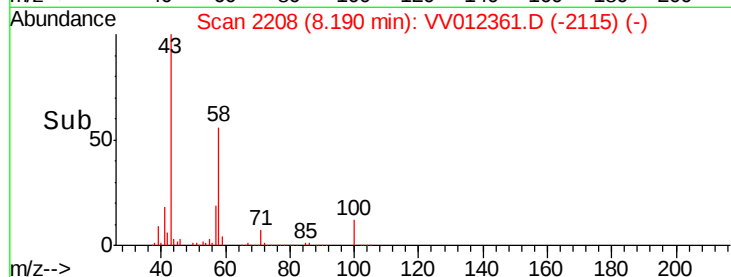
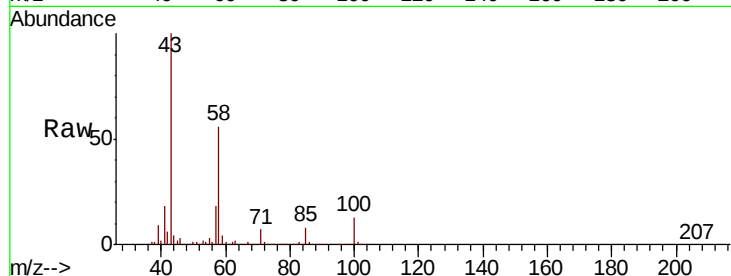




#48
2-Hexanone
Concen: 48.243 ug/L
RT: 8.19 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VV012361.D
Acq: 23 Aug 2019 13:13

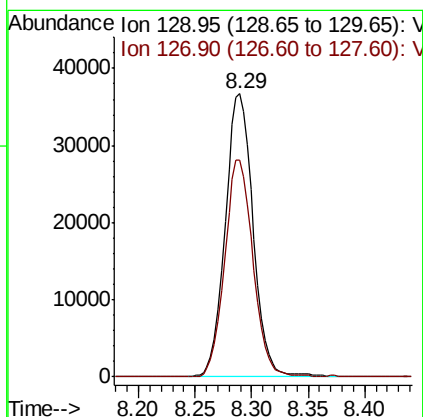
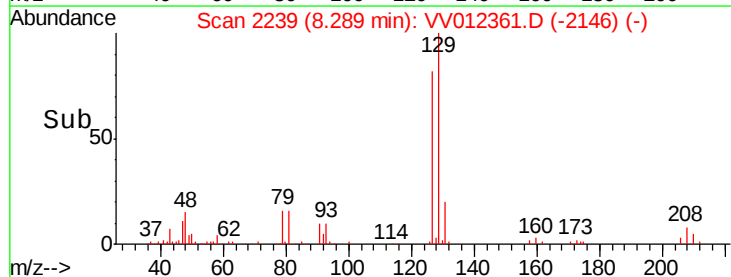
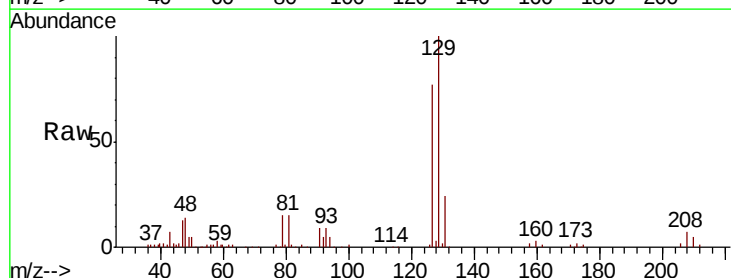
Instrument :
MSVOA_V
ClientSampleId :
VSTD00535

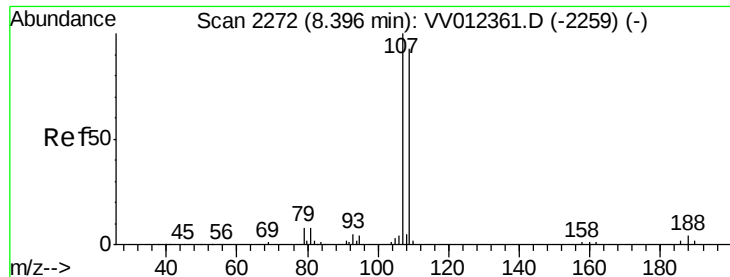
Tgt Ion: 43 Resp: 324210
Ion Ratio Lower Upper
43 100
58 57.9 46.3 69.5
57 18.6 14.9 22.3
100 12.1 9.7 14.5



#49
Dibromochloromethane
Concen: 4.390 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV012361.D
Acq: 23 Aug 2019 13:13

Tgt Ion: 129 Resp: 62933
Ion Ratio Lower Upper
129 100
127 76.8 53.8 99.8

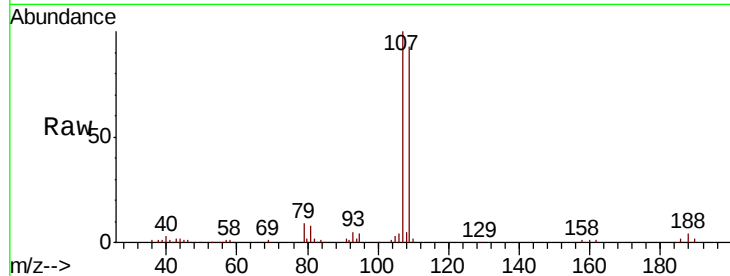




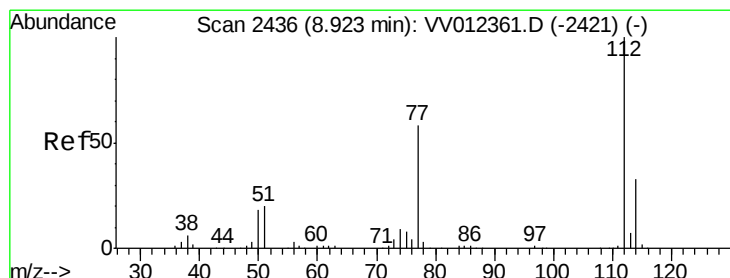
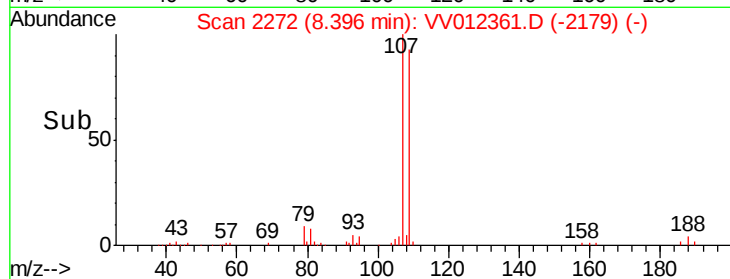
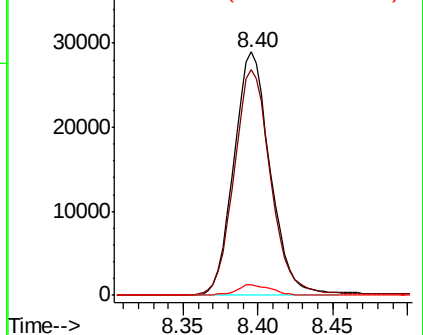
#50
 1,2-Dibromoethane
 Concen: 4.406 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VV012361.D
 Acq: 23 Aug 2019 13:13

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00535

Tgt Ion:107 Resp: 49145
 Ion Ratio Lower Upper
 107 100
 109 92.7 64.9 120.5
 188 4.4 3.5 5.3

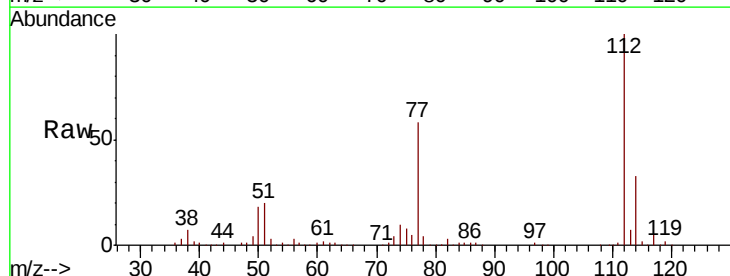


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

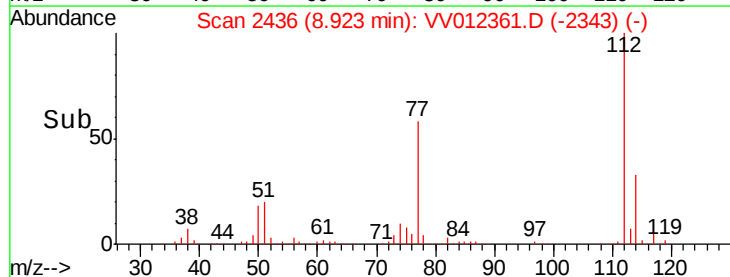
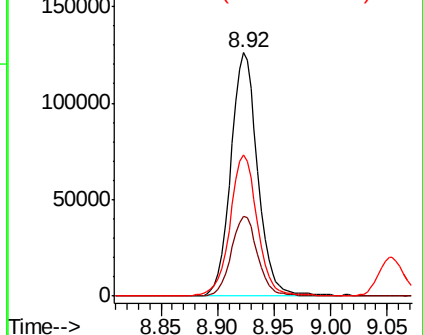


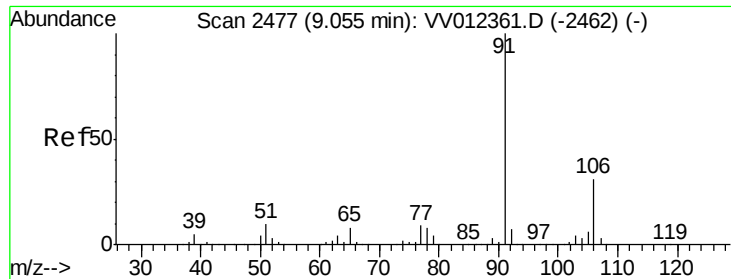
#51
 Chlorobenzene
 Concen: 4.365 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. 0.00 min
 Lab File: VV012361.D
 Acq: 23 Aug 2019 13:13

Tgt Ion:112 Resp: 208532
 Ion Ratio Lower Upper
 112 100
 114 32.8 23.0 42.6
 77 58.0 46.4 69.6



Abundance Ion 112.10 (111.80 to 112.80): V
 Ion 114.05 (113.75 to 114.75): V
 Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 4.524 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012361.D

Acq: 23 Aug 2019 13:13

Instrument :

MSVOA_V

ClientSampleId :

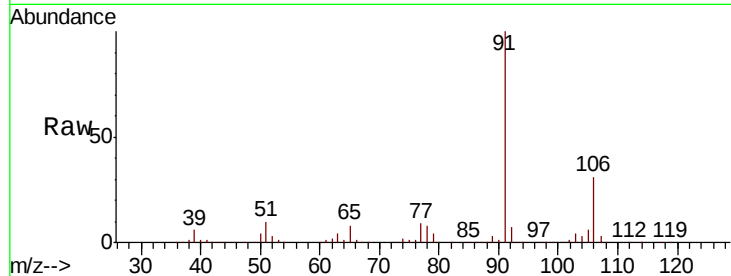
VSTD00535

Tgt Ion: 91 Resp: 356331

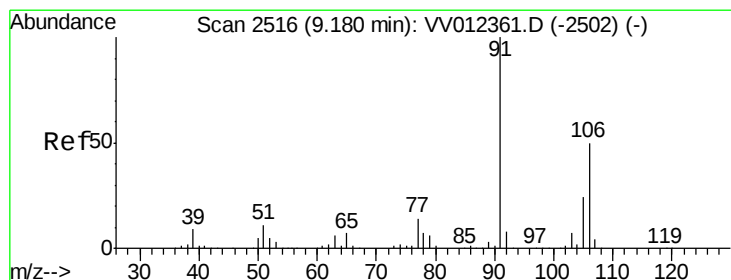
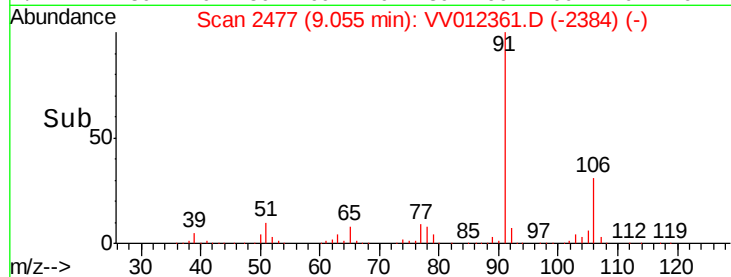
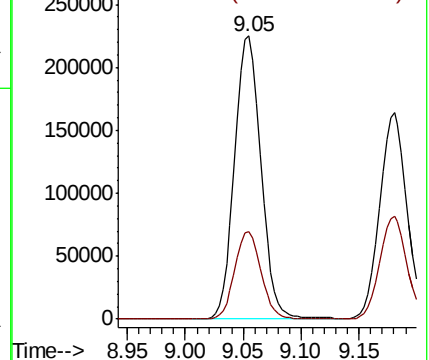
Ion Ratio Lower Upper

91 100

106 31.0 21.7 40.3



Abundance Ion 91.15 (90.85 to 91.85): VV012361.D (-2462) (-)



#53

m,p-xylene

Concen: 4.468 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV012361.D

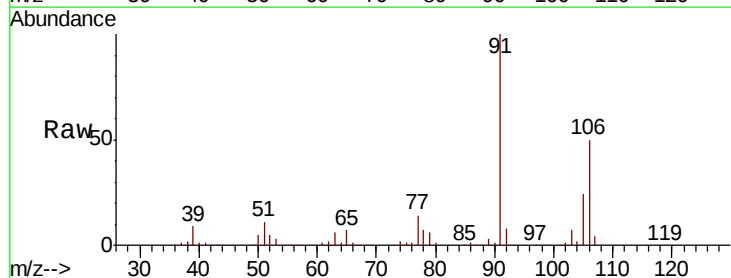
Acq: 23 Aug 2019 13:13

Tgt Ion: 106 Resp: 134287

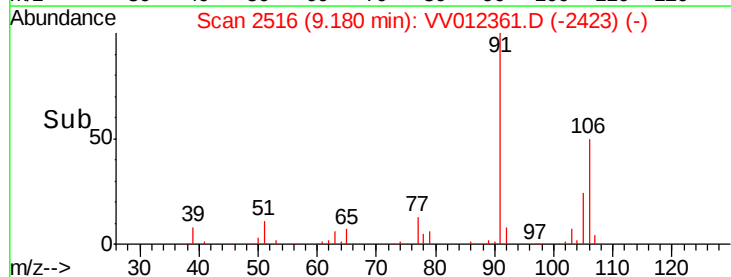
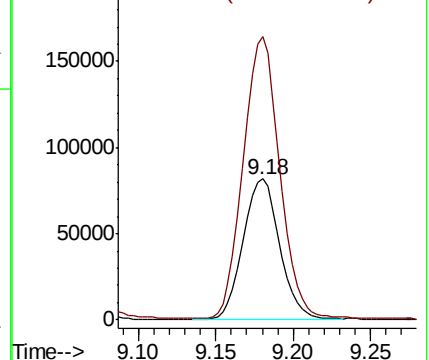
Ion Ratio Lower Upper

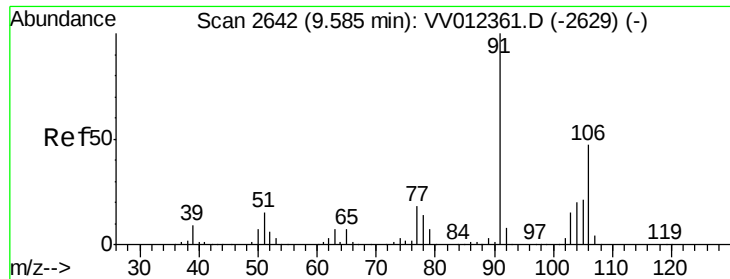
106 100

91 201.1 140.8 261.4



Abundance Ion 106.15 (105.85 to 106.85): VV012361.D (-2502) (-)

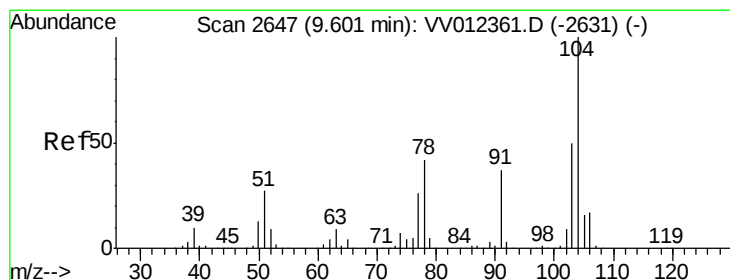
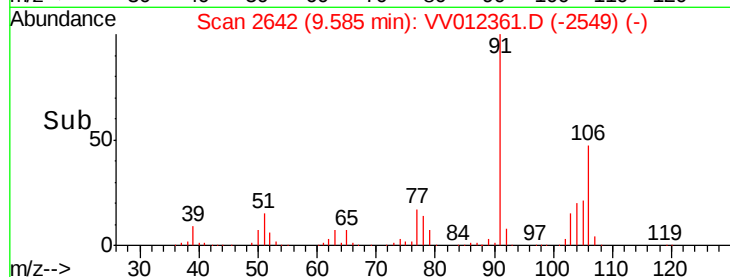
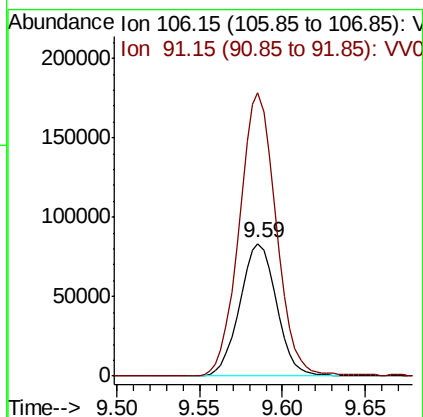
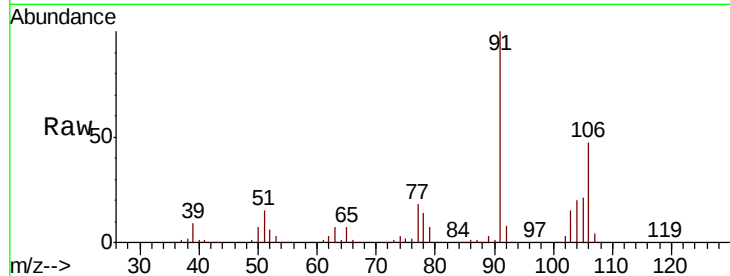




#54
o-xylene
Concen: 4.519 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.00 min
Lab File: VV012361.D
Acq: 23 Aug 2019 13:13

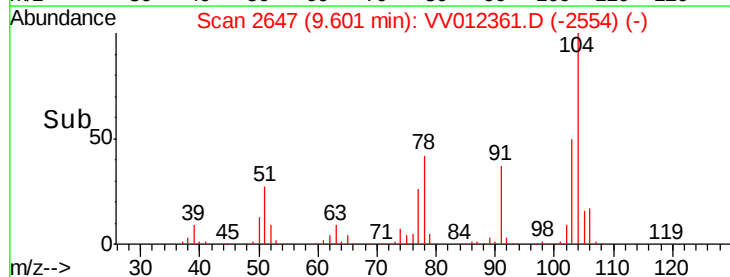
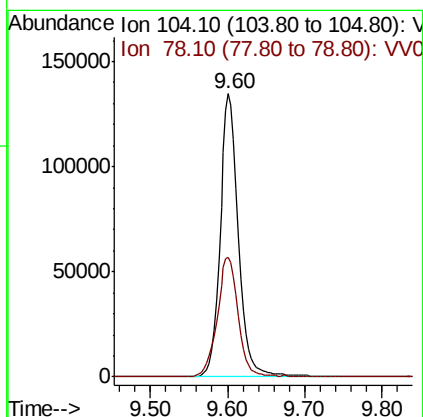
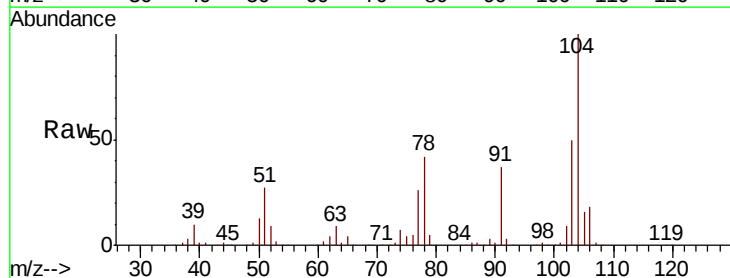
Instrument :
MSVOA_V
ClientSampleId :
VSTD00535

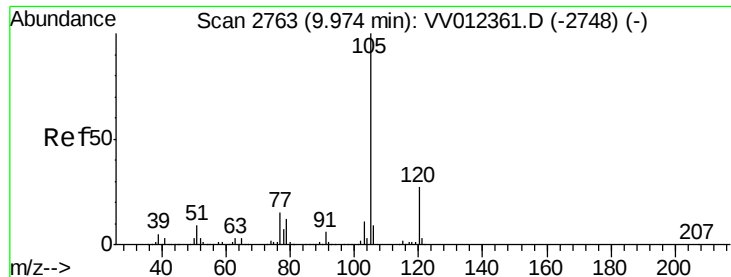
Tgt Ion:106 Resp: 128770
Ion Ratio Lower Upper
106 100
91 213.6 149.5 277.7



#55
Styrene
Concen: 4.672 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. 0.00 min
Lab File: VV012361.D
Acq: 23 Aug 2019 13:13

Tgt Ion:104 Resp: 222468
Ion Ratio Lower Upper
104 100
78 42.5 29.8 55.3





#56

Isopropylbenzene

Concen: 4.529 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV012361.D

Acq: 23 Aug 2019 13:13

Instrument :

MSVOA_V

ClientSampleId :

VSTD00535

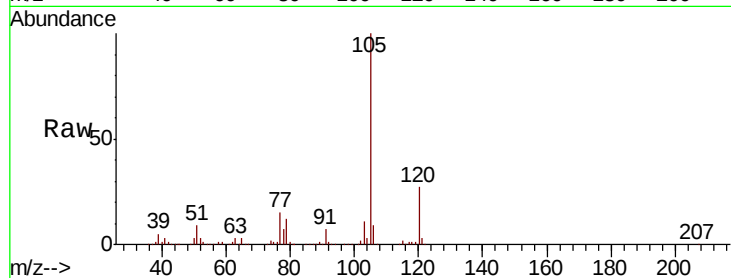
Tgt Ion: 105 Resp: 346460

Ion Ratio Lower Upper

105 100

120 26.9 21.5 32.3

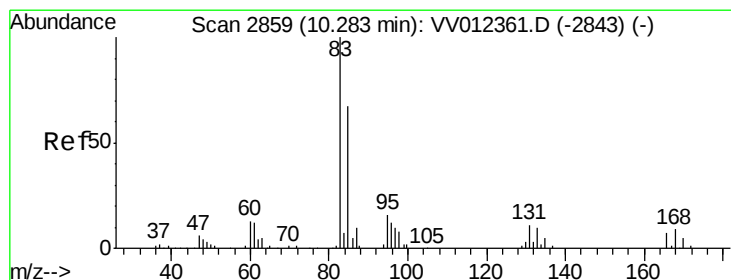
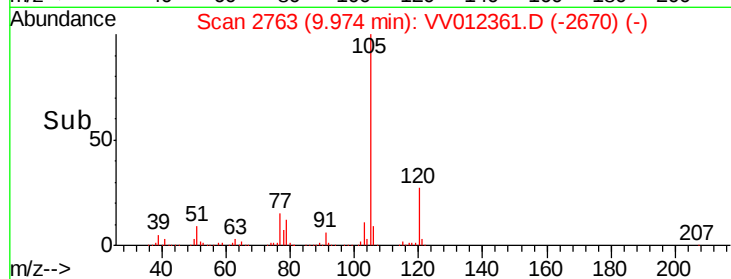
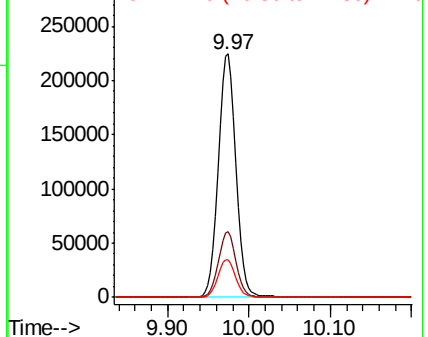
77 15.6 12.5 18.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.271 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV012361.D

Acq: 23 Aug 2019 13:13

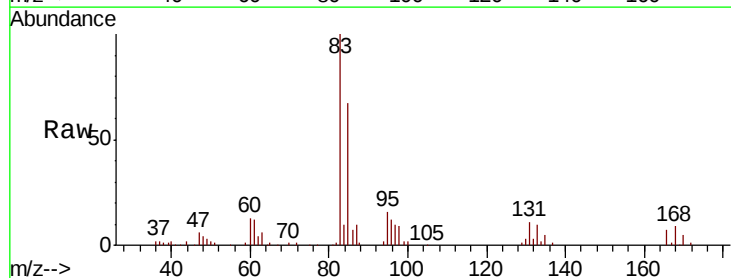
Tgt Ion: 83 Resp: 56671

Ion Ratio Lower Upper

83 100

85 66.5 46.5 86.5

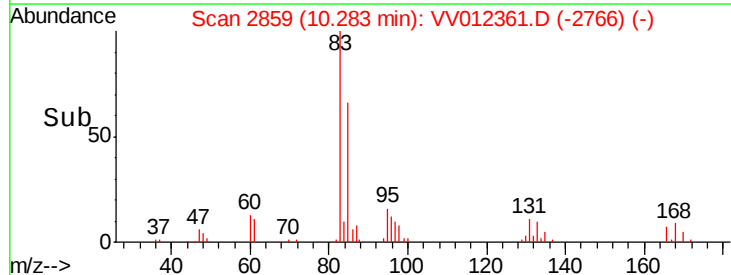
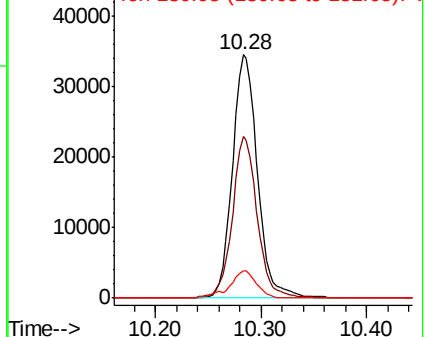
131 11.1 8.9 13.3

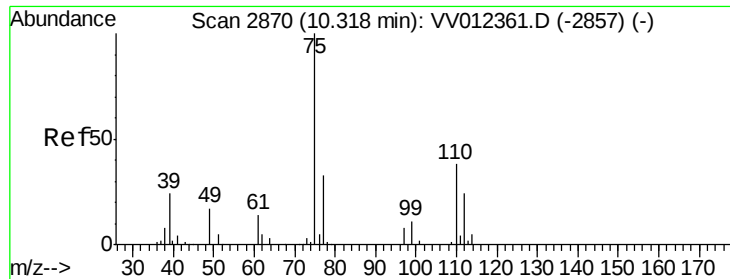


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.440 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV012361.D

Acq: 23 Aug 2019 13:13

Instrument :

MSVOA_V

ClientSampleId :

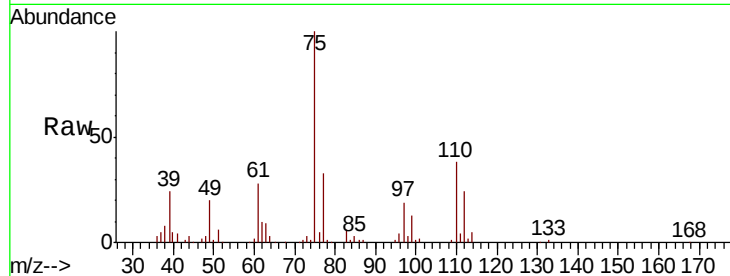
VSTD00535

Tgt Ion: 75 Resp: 43537

Ion Ratio Lower Upper

75 100

77 32.4 25.9 38.9

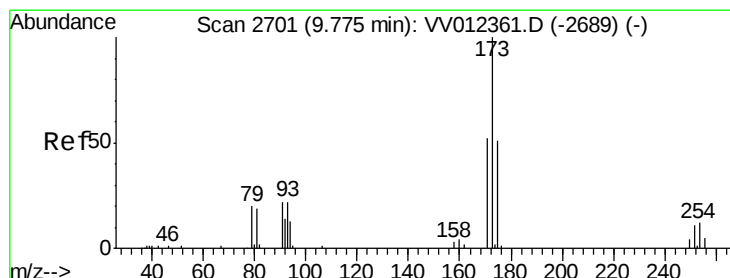
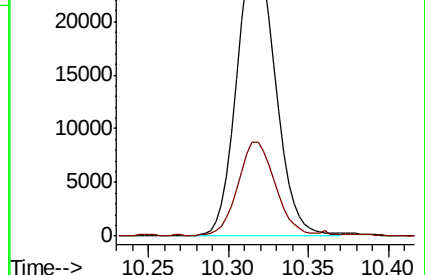
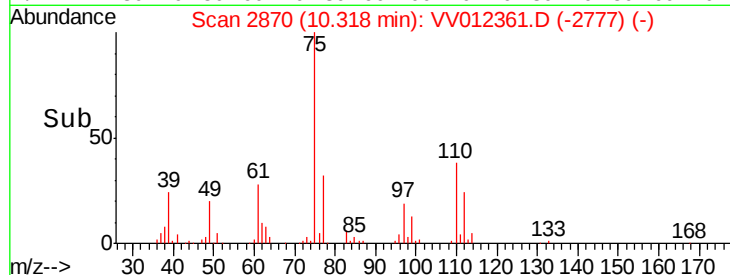


Abundance Ion 75.00 (74.70 to 75.70): VV012361.D (-2857) (-)

Ion 77.00 (76.70 to 77.70): VV012361.D (-2857) (-)

10.32

Time-->



#61

Bromoform

Concen: 4.483 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV012361.D

Acq: 23 Aug 2019 13:13

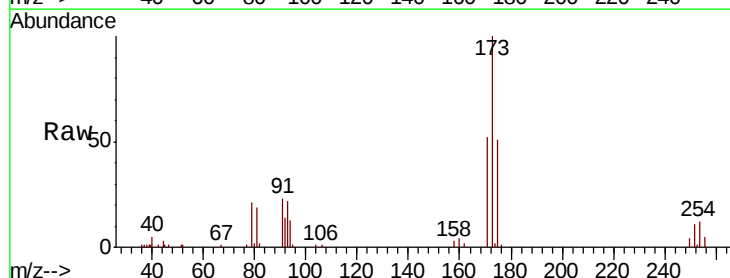
Tgt Ion: 173 Resp: 33203

Ion Ratio Lower Upper

173 100

175 50.9 40.7 61.1

254 11.9 9.5 14.3



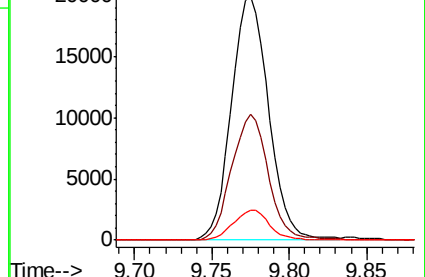
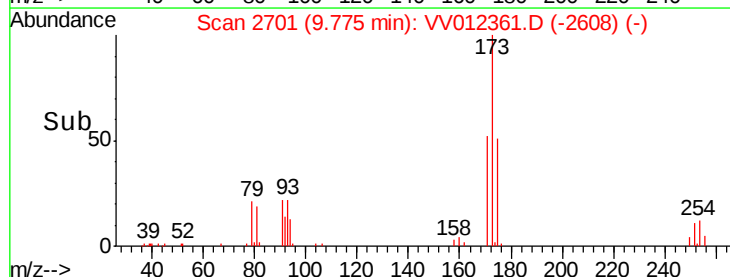
Abundance Ion 172.90 (172.60 to 173.60): VV012361.D (-2689) (-)

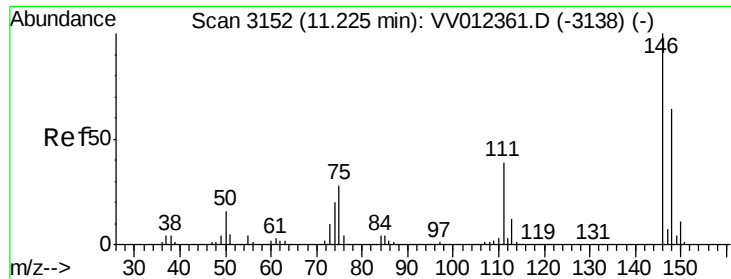
Ion 174.90 (174.60 to 175.60): VV012361.D (-2689) (-)

Ion 253.75 (253.45 to 254.45): VV012361.D (-2689) (-)

9.77

Time-->

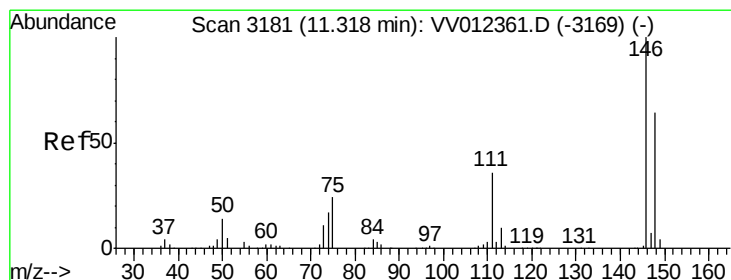
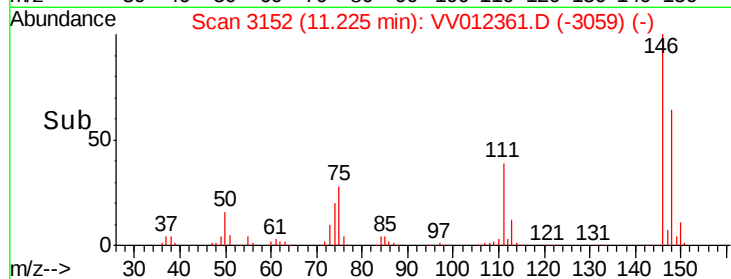
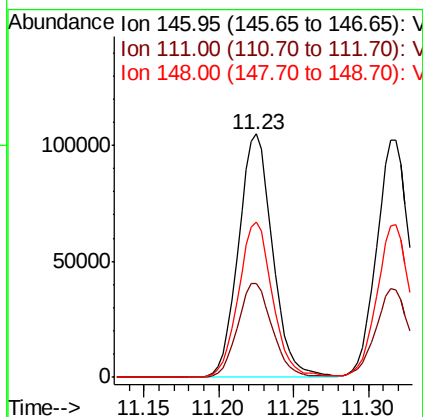
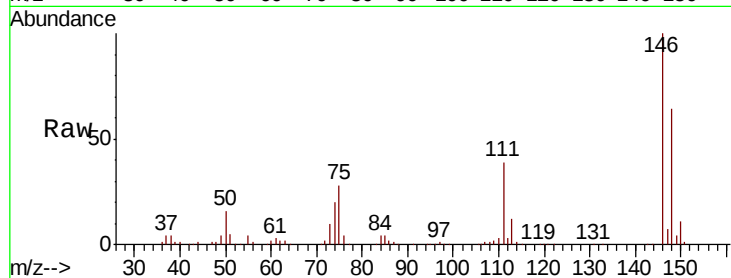




#62
 1,3-Dichlorobenzene
 Concen: 4.370 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV012361.D
 Acq: 23 Aug 2019 13:13

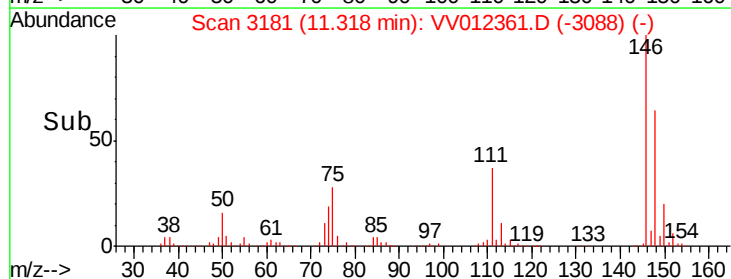
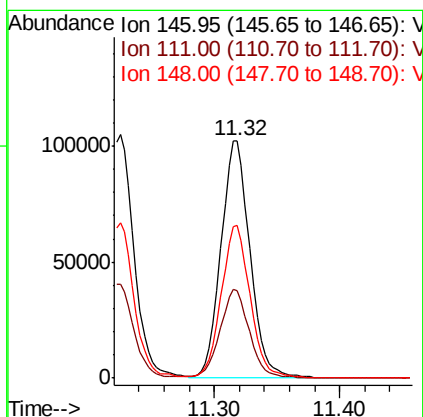
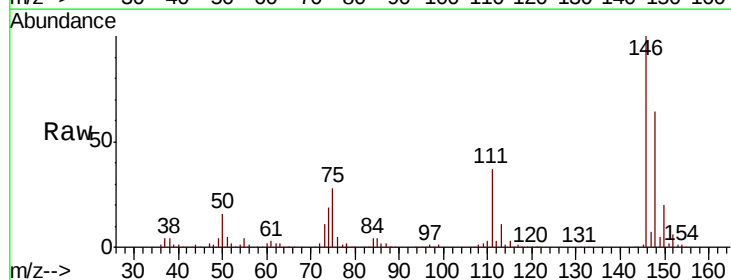
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00535

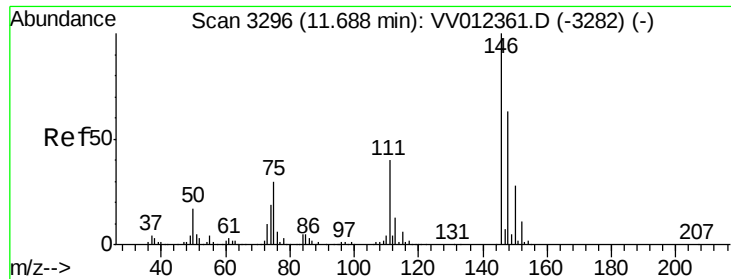
Tgt Ion:146 Resp: 166704
 Ion Ratio Lower Upper
 146 100
 111 38.6 27.0 50.2
 148 63.9 44.7 83.1



#63
 1,4-Dichlorobenzene
 Concen: 4.304 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV012361.D
 Acq: 23 Aug 2019 13:13

Tgt Ion:146 Resp: 163718
 Ion Ratio Lower Upper
 146 100
 111 36.7 25.7 47.7
 148 64.3 45.0 83.6

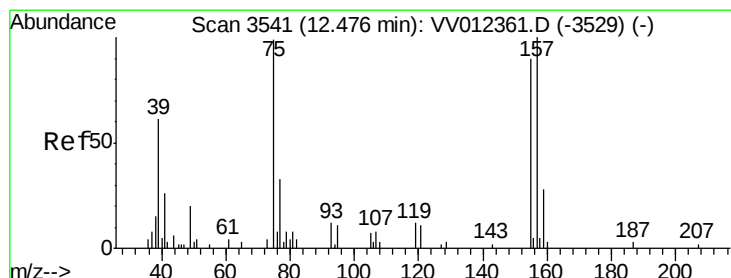
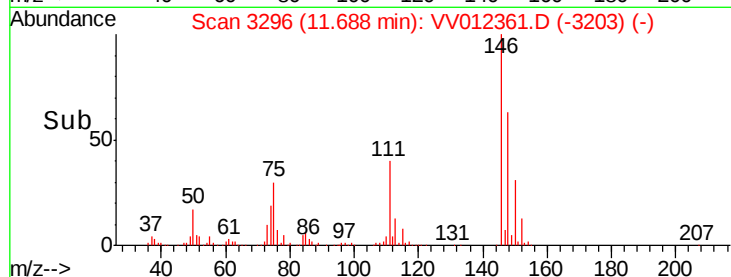
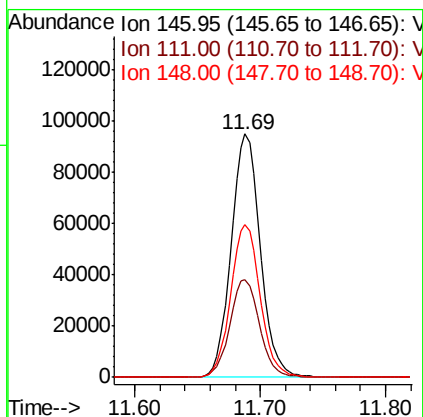
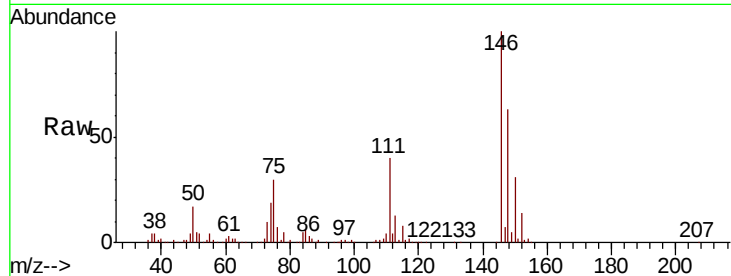




#65
 1,2-Dichlorobenzene
 Concen: 4.358 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. 0.00 min
 Lab File: VV012361.D
 Acq: 23 Aug 2019 13:13

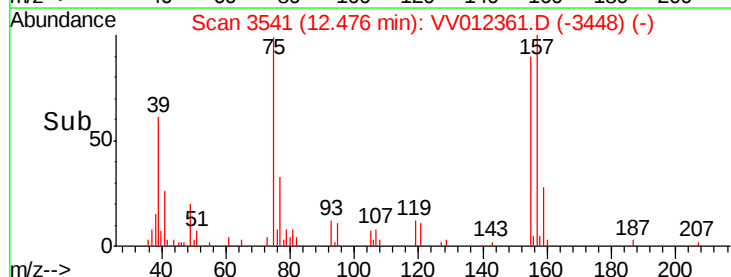
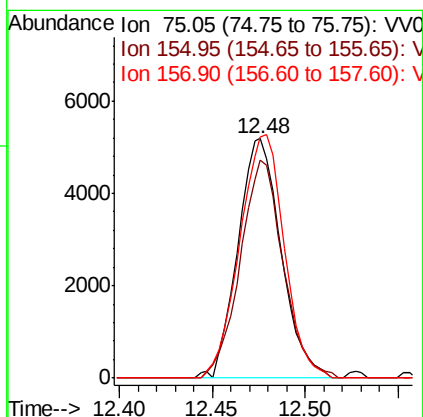
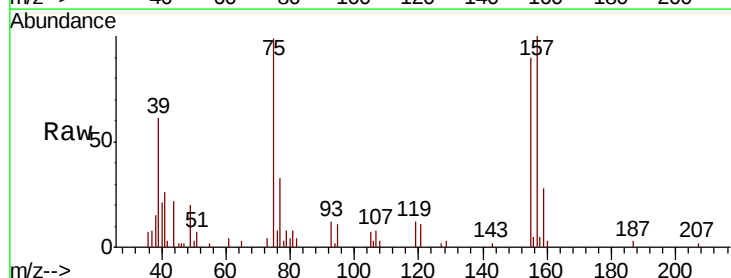
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00535

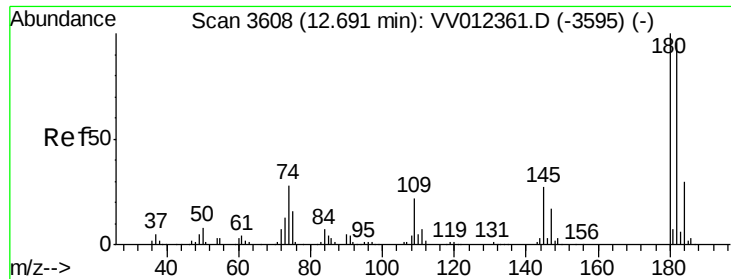
Tgt Ion:146 Resp: 152651
 Ion Ratio Lower Upper
 146 100
 111 39.9 31.9 47.9
 148 62.8 50.2 75.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 3.776 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.00 min
 Lab File: VV012361.D
 Acq: 23 Aug 2019 13:13

Tgt Ion: 75 Resp: 8376
 Ion Ratio Lower Upper
 75 100
 155 90.8 72.6 109.0
 157 100.6 80.5 120.7

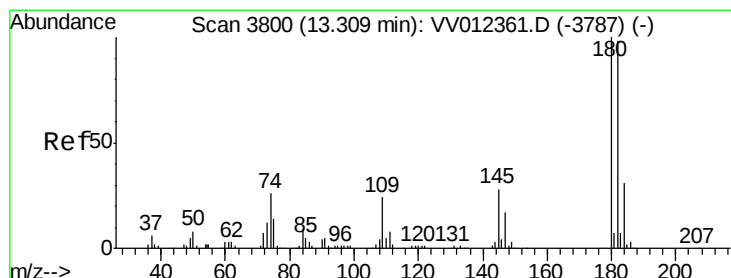
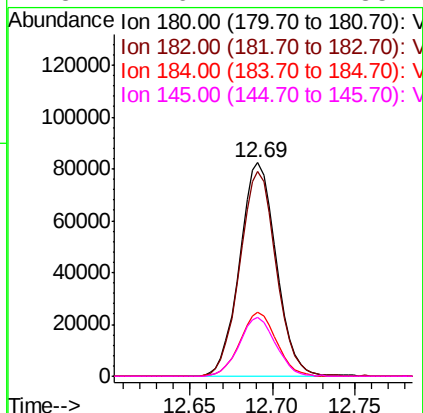
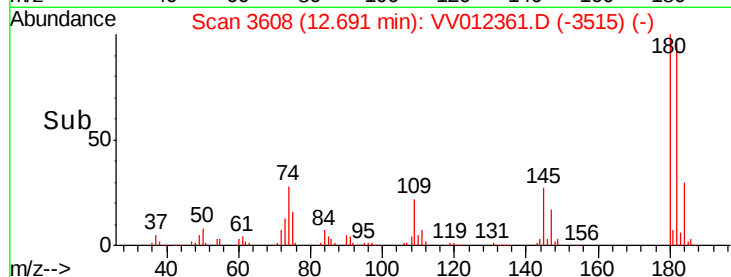
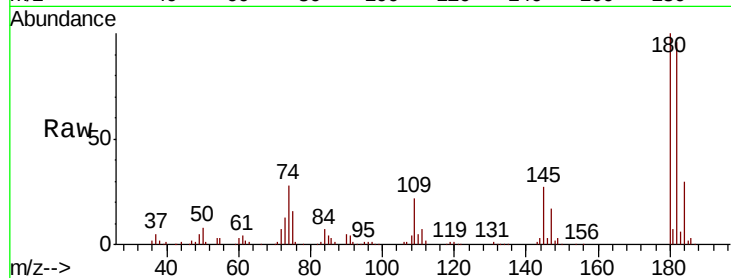




#67
 1,3,5-Trichlorobenzene
 Concen: 4.367 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV012361.D
 Acq: 23 Aug 2019 13:13

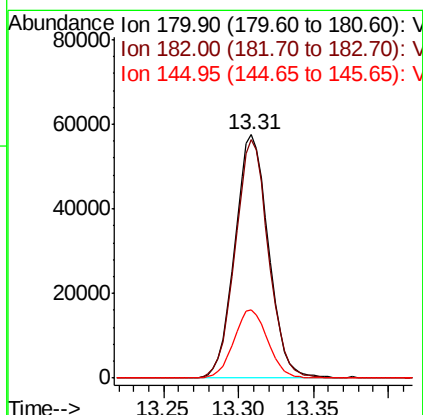
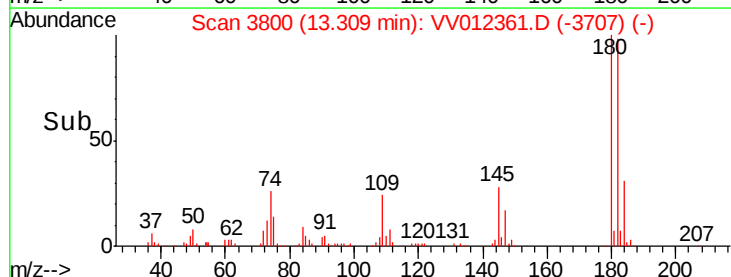
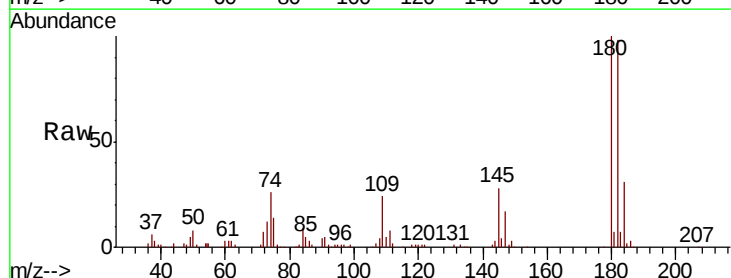
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00535

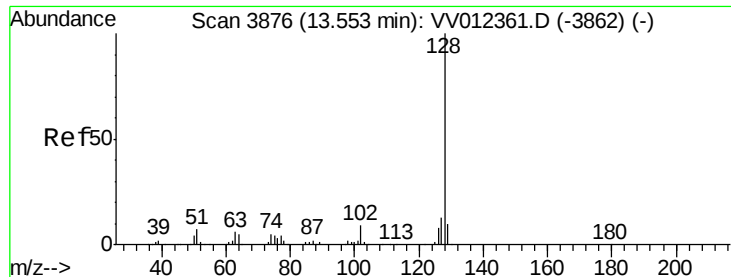
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.4	114.6
184	29.9	23.9	35.9
145	27.6	22.1	33.1



#68
 1,2,4-trichlorobenzene
 Concen: 4.233 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV012361.D
 Acq: 23 Aug 2019 13:13

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.6	77.3	115.9
145	28.3	22.6	34.0





#69

Naphthalene

Concen: 3.898 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV012361.D

Acq: 23 Aug 2019 13:13

Instrument :

MSVOA_V

ClientSampleId :

VSTD00535

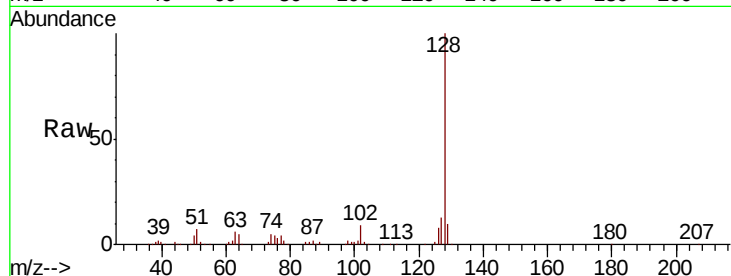
Tgt Ion:128 Resp: 117378

Ion Ratio Lower Upper

128 100

129 10.7 8.6 12.8

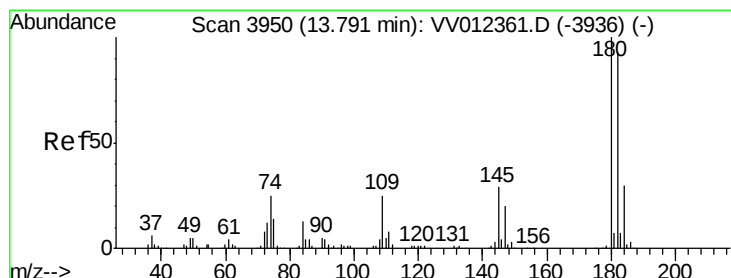
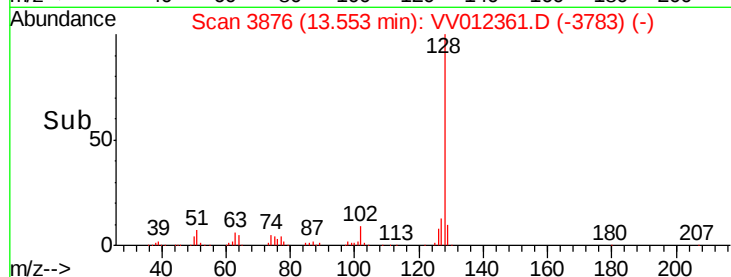
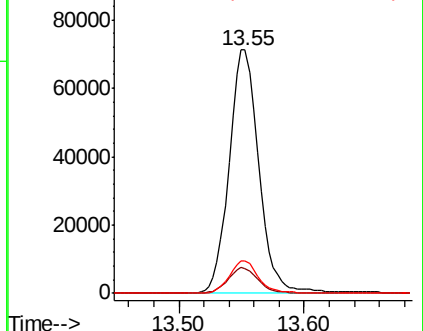
127 13.1 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.292 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV012361.D

Acq: 23 Aug 2019 13:13

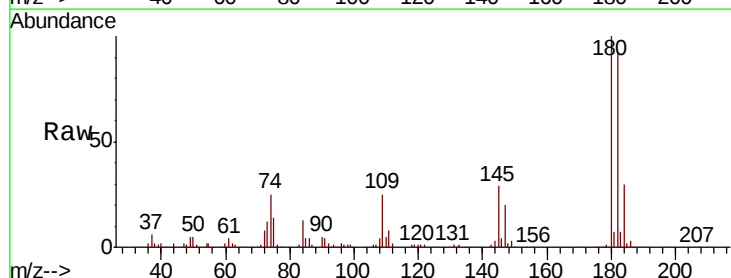
Tgt Ion:180 Resp: 85971

Ion Ratio Lower Upper

180 100

182 93.9 75.1 112.7

145 29.3 23.4 35.2



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

