

Data File : VV010515.D
Acq On : 26 Apr 2019 20:48
Operator : SY/MD
Sample : VSTD02038
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02038

Quant Time: Apr 26 22:26:06 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR042719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Apr 26 22:21:45 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	273671	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	256287	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	136352	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	246537	15.74	ug/L	0.00
7) Chloroethane-d5	1.57	69	111291	10.22	ug/L	-0.01
11) 1,1-Dichloroethene-d2	2.13	63	467086	15.59	ug/L	0.00
20) 2-Butanone-d5	3.94	46	612896	175.37	ug/L	0.00
24) Chloroform-d	4.40	84	673443	19.65	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	302905	17.91	ug/L	0.00
32) Benzene-d6	5.10	84	1295555	20.65	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	357265	19.67	ug/L	0.00
41) Toluene-d8	7.36	98	1279865	20.86	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.66	79	144293	20.25	ug/L	0.00
46) 2-Hexanone-d5	8.14	63	581845	206.11	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	256803	18.57	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	508517	19.56	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	401780	18.586 ug/L	96
3) Chloromethane	1.25	50	245745	14.903 ug/L	100
5) Vinyl chloride	1.32	62	289712	16.138 ug/L	98
6) Bromomethane	1.53	94	114708	10.216 ug/L	97
8) Chloroethane	1.59	64	103535	10.865 ug/L	95
9) Trichlorofluoromethane	1.76	101	549829	16.293 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	276079	15.807 ug/L	99
12) 1,1-Dichloroethene	2.14	96	246805	15.547 ug/L	94
13) Acetone	2.20	43	272504	136.823 ug/L	98
14) Carbon disulfide	2.31	76	631777	14.868 ug/L	98
15) Methyl Acetate	2.46	43	98116	18.220 ug/L	97
16) Methylene chloride	2.53	84	342459	18.296 ug/L	99
17) Methyl tert-butyl Ether	2.81	73	723999	18.600 ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	361140	19.691 ug/L	94
19) 1,1-Dichloroethane	3.23	63	581612	19.709 ug/L	99
21) 2-Butanone	4.03	43	627331	175.169 ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	394371	20.623 ug/L	96
23) Bromochloromethane	4.30	128	173807	20.324 ug/L	99
25) Chloroform	4.43	83	664063	19.375 ug/L	98
27) 1,2-Dichloroethane	5.18	62	371344	18.411 ug/L	100
29) 1,1,1-Trichloroethane	4.66	97	619579	20.814 ug/L	100
30) Cyclohexane	4.72	56	489755	19.935 ug/L	98
31) Carbon tetrachloride	4.87	117	605100	22.253 ug/L	99
33) Benzene	5.15	78	1377084	20.971 ug/L	100
34) Trichloroethene	5.96	95	391800	20.730 ug/L	98
35) Methylcyclohexane	6.18	83	580661	21.276 ug/L	96
37) 1,2-Dichloropropane	6.22	63	310305	19.414 ug/L	98
38) Bromodichloromethane	6.56	83	448846	20.962 ug/L	97
39) cis-1,3-Dichloropropene	7.07	75	495483	21.256 ug/L	95
40) 4-Methyl-2-pentanone	7.28	43	1515833	169.310 ug/L	98

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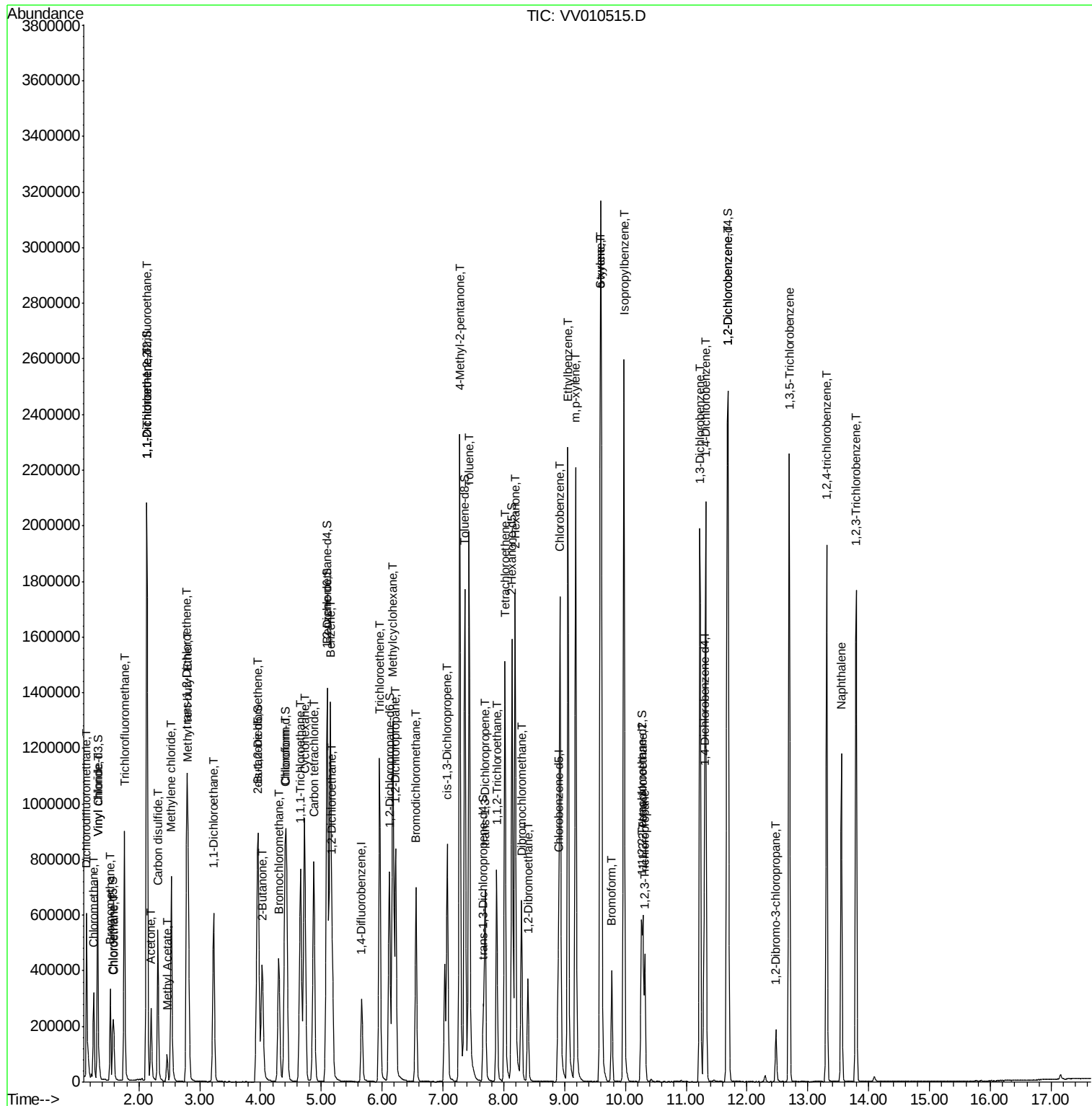
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	1533293	20.467	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	385458	21.303	ug/L	97
45) 1,1,2-Trichloroethane	7.88	97	238590	19.980	ug/L	93
47) Tetrachloroethene	8.02	164	373499	21.769	ug/L	99
48) 2-Hexanone	8.19	43	1064607	170.907	ug/L	97
49) Dibromochloromethane	8.29	129	336989	21.953	ug/L	97
50) 1,2-Dibromoethane	8.40	107	233304	20.295	ug/L	97
51) Chlorobenzene	8.93	112	1030176	20.185	ug/L	100
52) Ethylbenzene	9.05	91	1683959	20.543	ug/L	100
53) m,p-xylene	9.18	106	679372	21.213	ug/L	99
54) o-xylene	9.59	106	654918	20.625	ug/L	98
55) Styrene	9.60	104	1079425	20.827	ug/L	97
56) Isopropylbenzene	9.97	105	1731162	20.665	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	256205	18.714	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	177394	17.958	ug/L	99
61) Bromoform	9.77	173	184810	22.294	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	868695	20.472	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	875325	20.406	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	817273	20.102	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	40979	18.106	ug/L	94
67) 1,3,5-Trichlorobenzene	12.69	180	741623	21.232	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	600180	22.599	ug/L	99
69) Naphthalene	13.55	128	920354	23.077	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	561566	21.884	ug/L	100

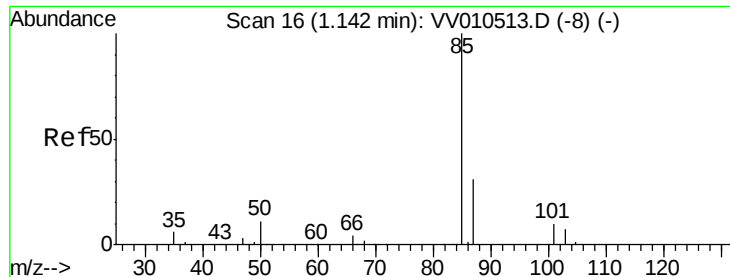
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 18.586 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

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Instrument :

MSVOA_V

ClientSampleId :

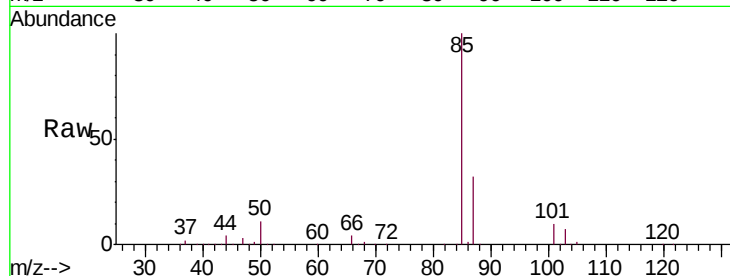
VSTD02038

Tgt Ion: 85 Resp: 401780

Ion Ratio Lower Upper

85 100

87 32.5 24.1 36.1



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

1.14

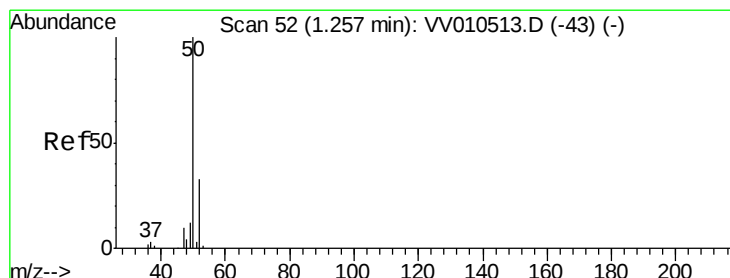
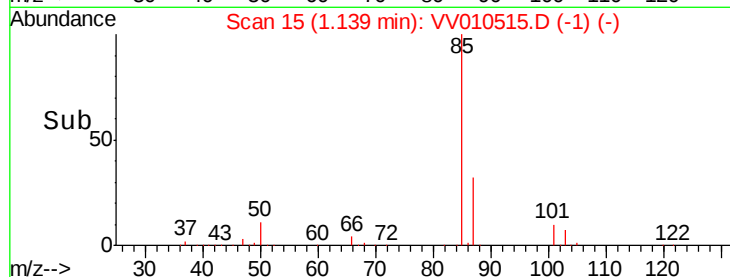
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 14.903 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV010515.D

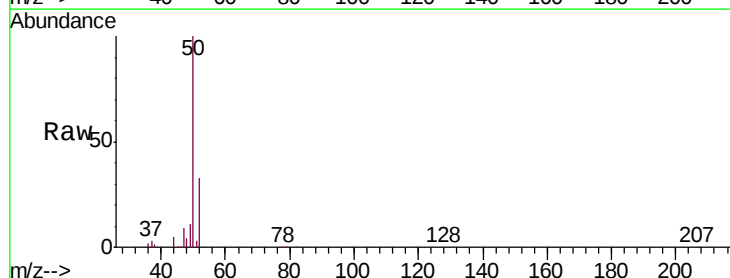
Acq: 26 Apr 2019 20:48

Tgt Ion: 50 Resp: 245745

Ion Ratio Lower Upper

50 100

52 33.1 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0

1.25

200000

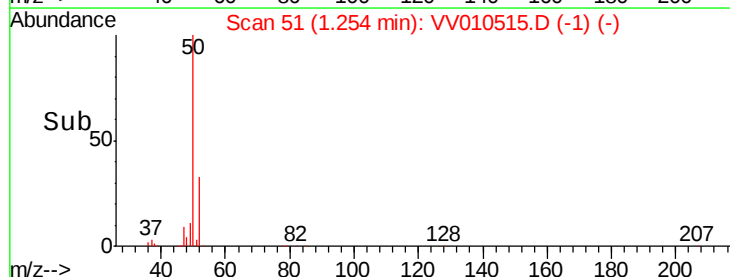
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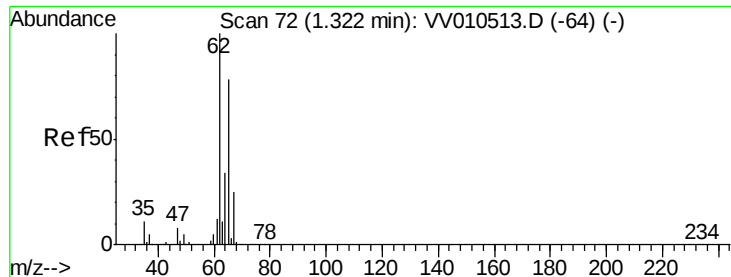
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50000

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Time-->





#5

Vinyl chloride

Concen: 16.138 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV010515.D

Acq: 26 Apr 2019 20:48

Instrument :

MSVOA_V

ClientSampleId :

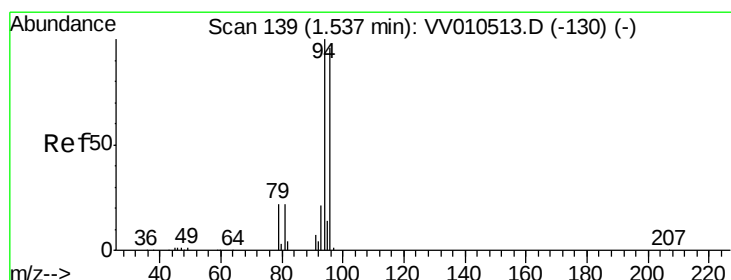
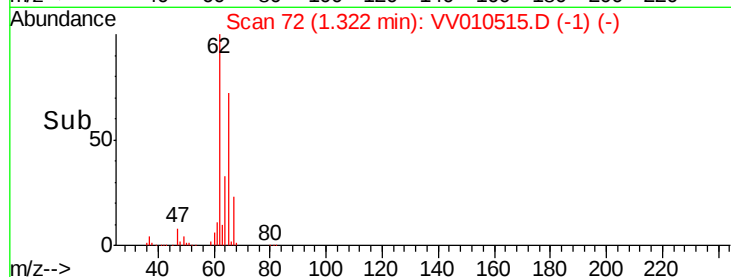
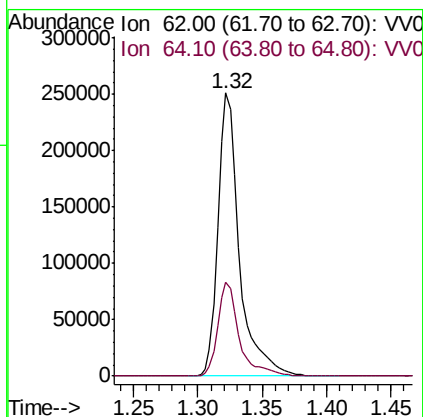
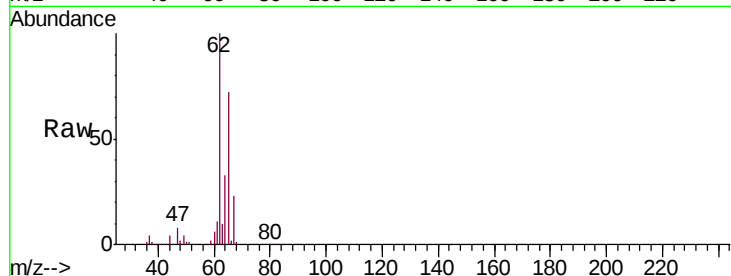
VSTD02038

Tgt Ion: 62 Resp: 289712

Ion Ratio Lower Upper

62 100

64 33.1 23.9 44.5



#6

Bromomethane

Concen: 10.216 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.01 min

Lab File: VV010515.D

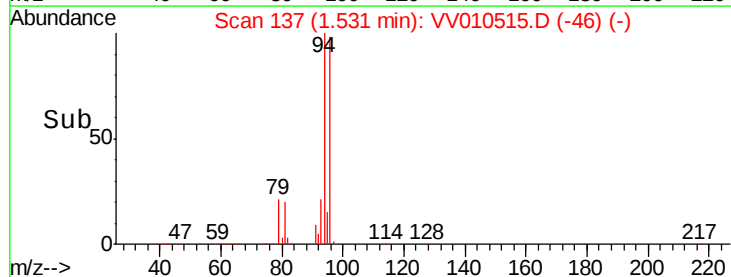
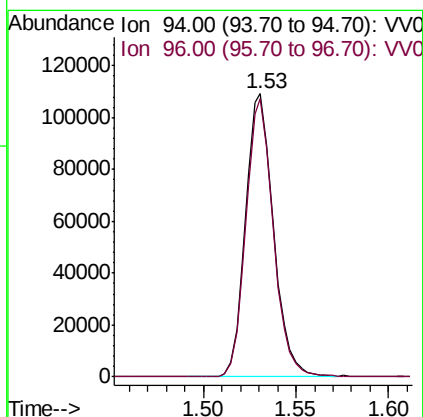
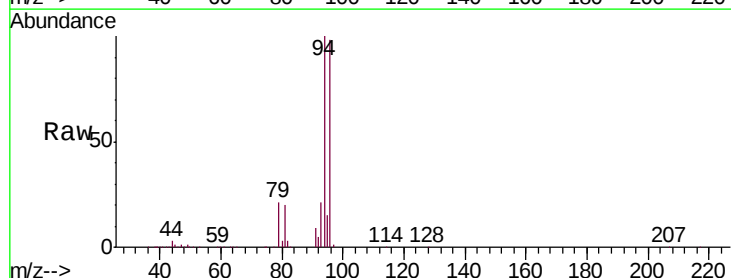
Acq: 26 Apr 2019 20:48

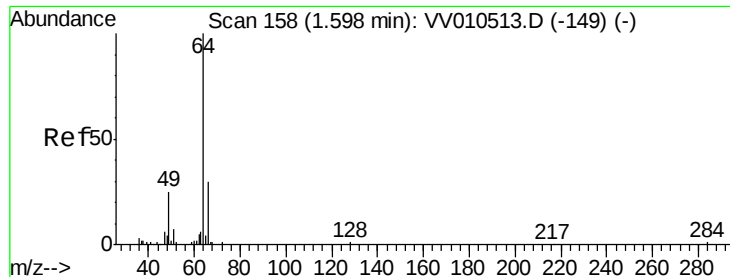
Tgt Ion: 94 Resp: 114708

Ion Ratio Lower Upper

94 100

96 98.1 66.9 124.3

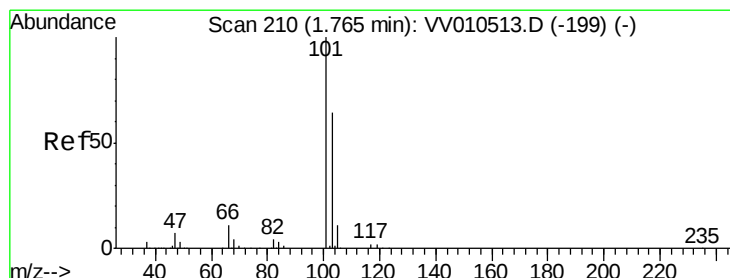
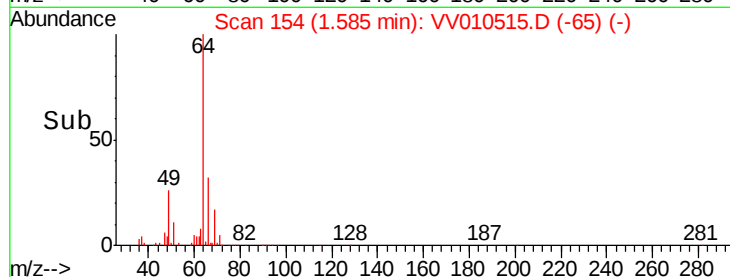
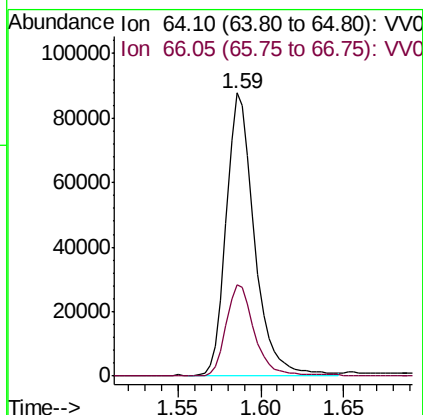
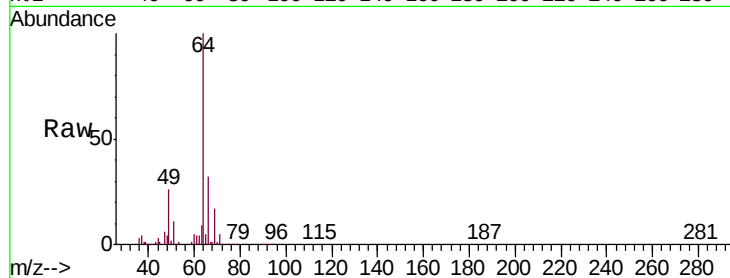




#8
Chloroethane
Concen: 10.865 ug/L
RT: 1.59 min Scan# 154
Delta R.T. -0.01 min
Lab File: VV010515.D
Acq: 26 Apr 2019 20:48

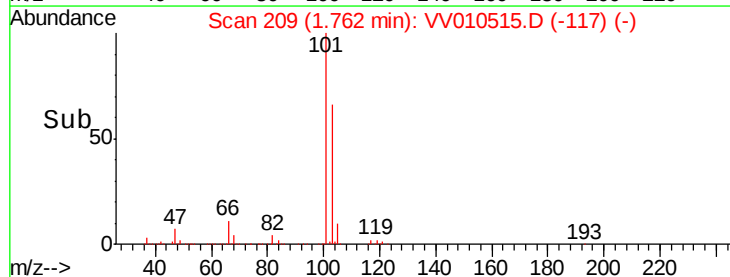
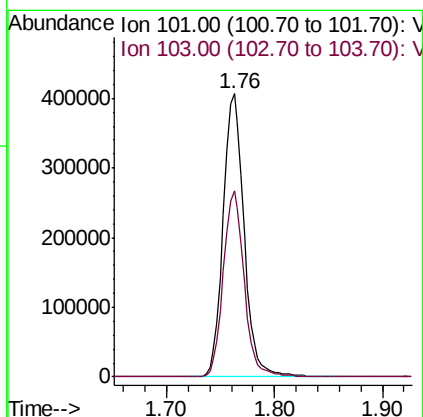
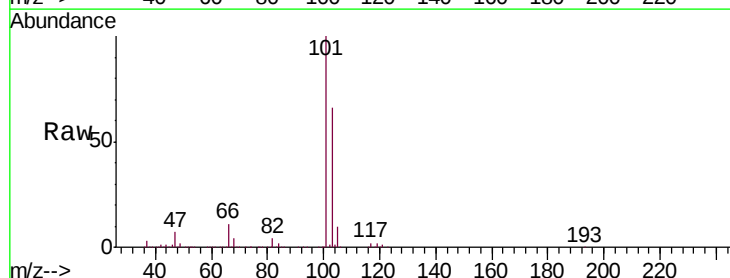
Instrument :
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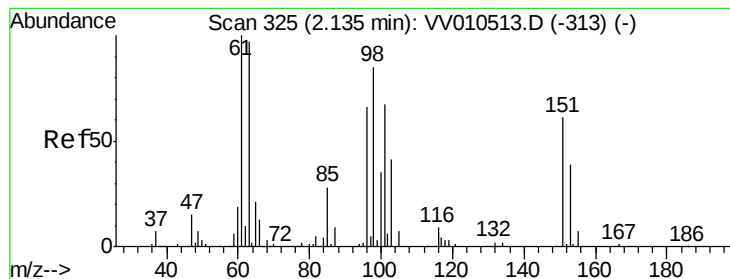
Tgt Ion: 64 Resp: 103535
Ion Ratio Lower Upper
64 100
66 32.5 20.7 38.5



#9
Trichlorofluoromethane
Concen: 16.293 ug/L
RT: 1.76 min Scan# 209
Delta R.T. -0.00 min
Lab File: VV010515.D
Acq: 26 Apr 2019 20:48

Tgt Ion: 101 Resp: 549829
Ion Ratio Lower Upper
101 100
103 65.4 50.5 75.7





#10

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

Concen: 15.807 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV010515.D

Acq: 26 Apr 2019 20:48

Instrument :

MSVOA_V

ClientSampleId :

VSTD02038

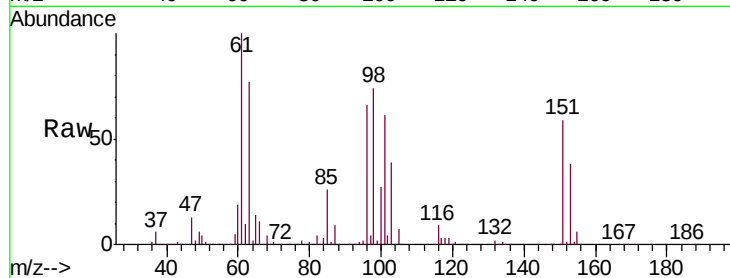
Tgt Ion: 101 Resp: 276079

Ion Ratio Lower Upper

101 100

85 41.6 34.2 51.4

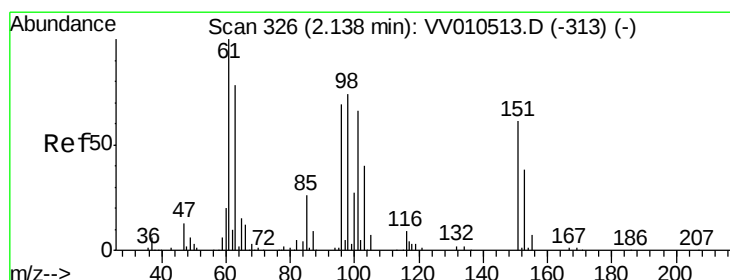
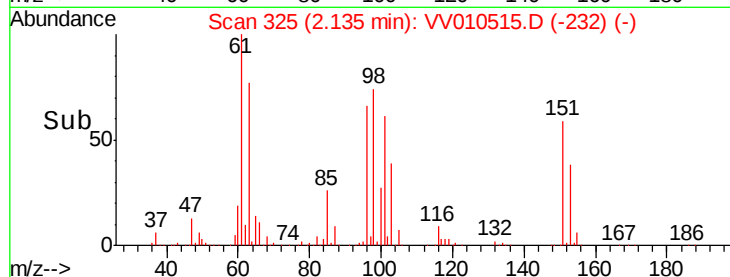
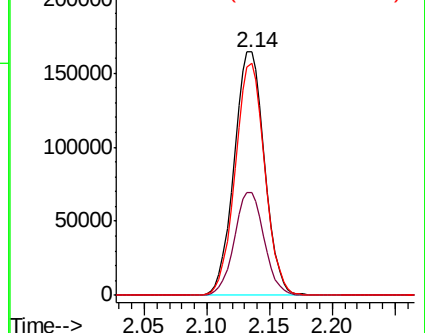
151 92.8 75.2 112.8



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: 15.547 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV010515.D

Acq: 26 Apr 2019 20:48

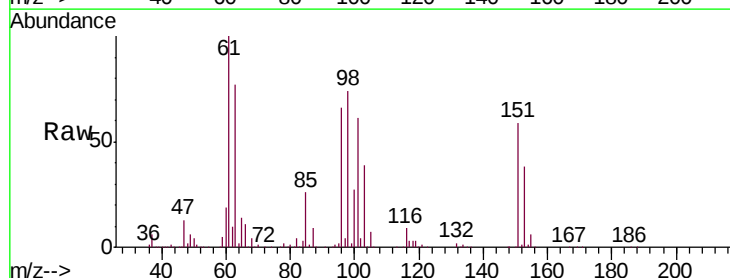
Tgt Ion: 96 Resp: 246805

Ion Ratio Lower Upper

96 100

61 152.6 101.2 188.0

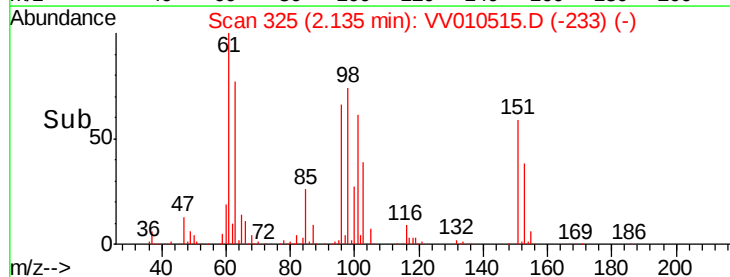
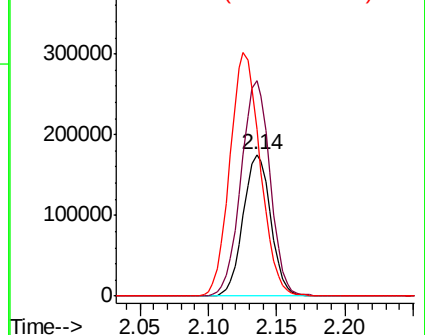
63 118.1 79.2 147.0

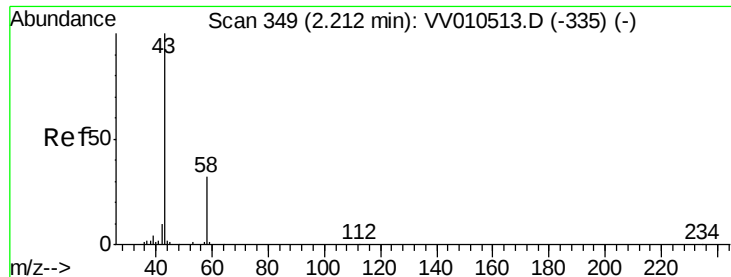


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 136.823 ug/L

RT: 2.20 min Scan# 345

Delta R.T. -0.01 min

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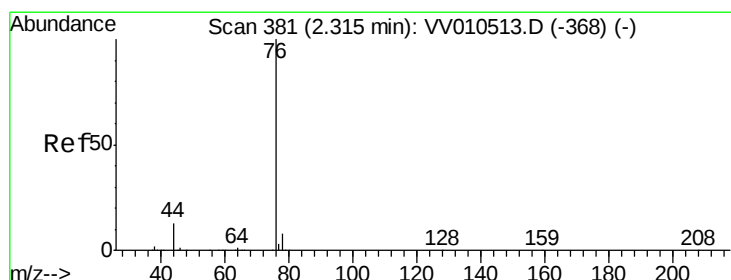
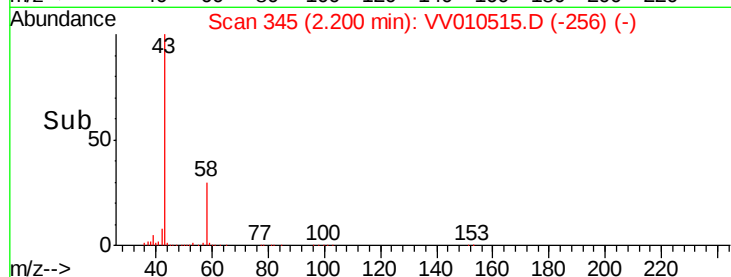
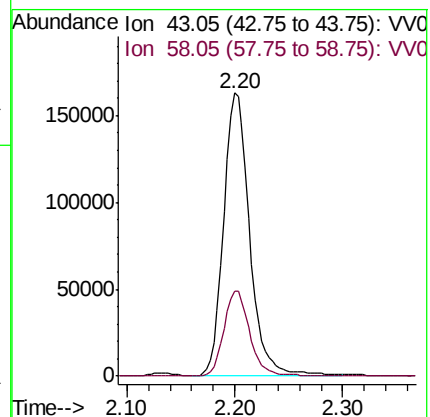
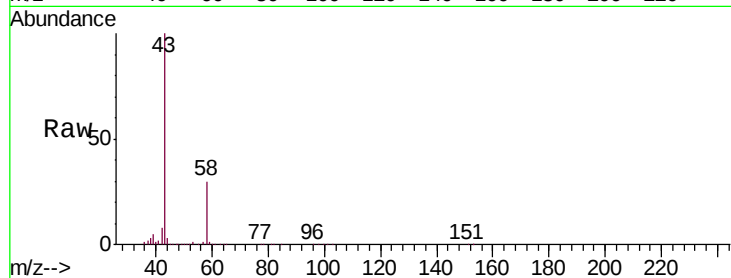
VSTD02038

Tgt Ion: 43 Resp: 272504

Ion Ratio Lower Upper

43 100

58 29.9 0.0 57.4



#14

Carbon disulfide

Concen: 14.868 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV010515.D

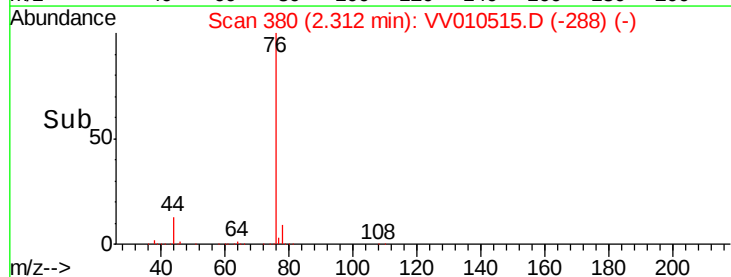
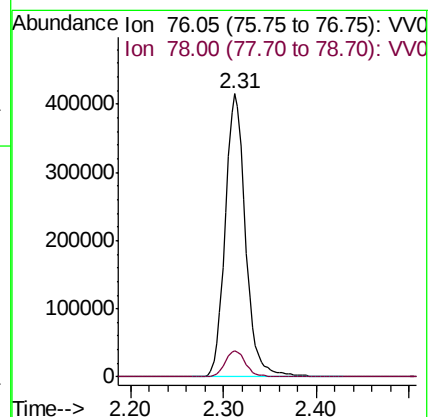
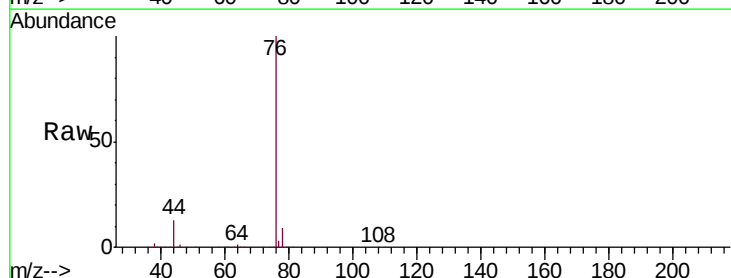
Acq: 26 Apr 2019 20:48

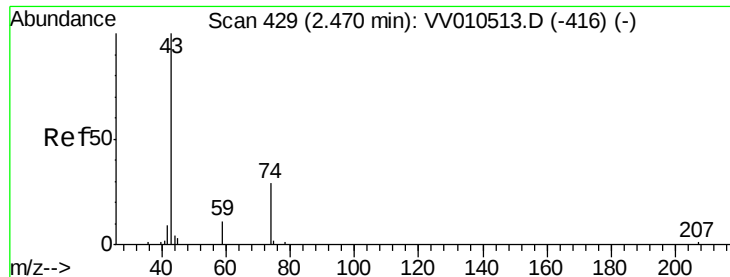
Tgt Ion: 76 Resp: 631777

Ion Ratio Lower Upper

76 100

78 9.1 6.9 10.3

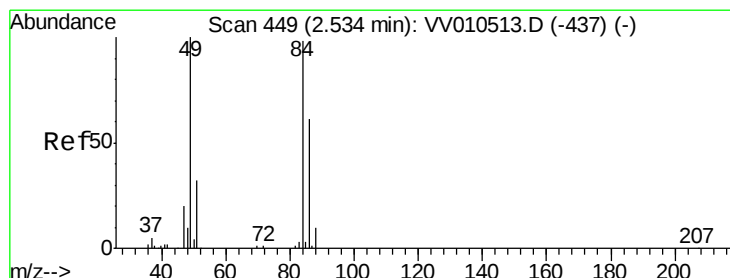
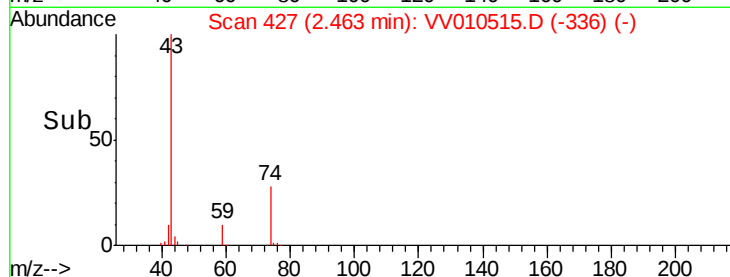
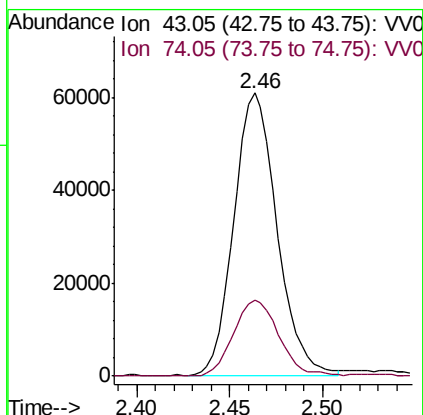
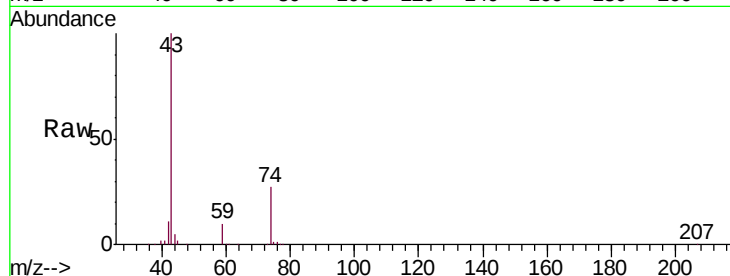




#15
Methyl Acetate
Concen: 18.220 ug/L
RT: 2.46 min Scan# 427
Delta R.T. -0.01 min
Lab File: VV010515.D
Acq: 26 Apr 2019 20:48

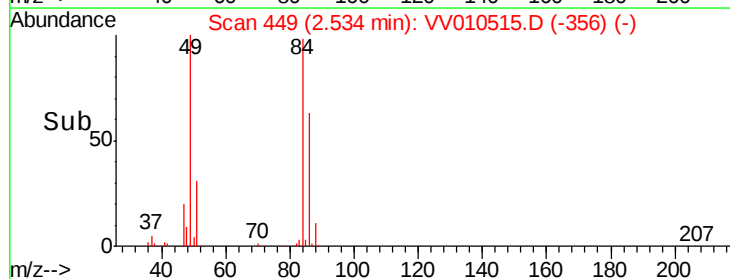
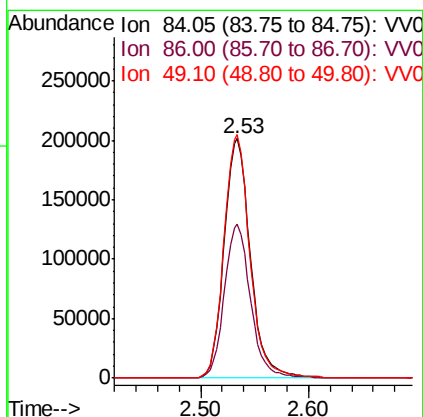
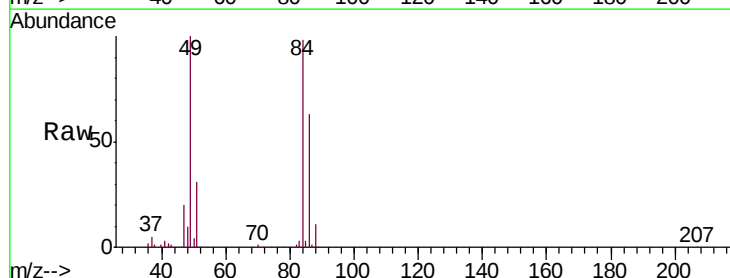
Instrument :
MSVOA_V
ClientSampleId :
VSTD02038

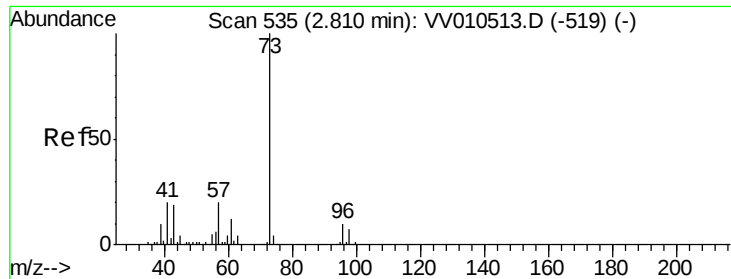
Tgt Ion: 43 Resp: 98116
Ion Ratio Lower Upper
43 100
74 28.3 24.2 36.2



#16
Methylene chloride
Concen: 18.296 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV010515.D
Acq: 26 Apr 2019 20:48

Tgt Ion: 84 Resp: 342459
Ion Ratio Lower Upper
84 100
86 64.4 43.7 81.1
49 101.6 71.4 132.6





#17

Methyl tert-butyl Ether

Concen: 18.600 ug/L

RT: 2.81 min Scan# 535

Delta R.T. 0.00 min

Lab File: VV010515.D

Acq: 26 Apr 2019 20:48

Instrument :

MSVOA_V

ClientSampleId :

VSTD02038

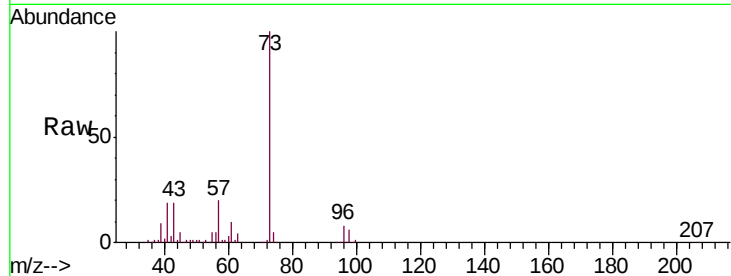
Tgt Ion: 73 Resp: 723999

Ion Ratio Lower Upper

73 100

43 18.7 15.4 23.0

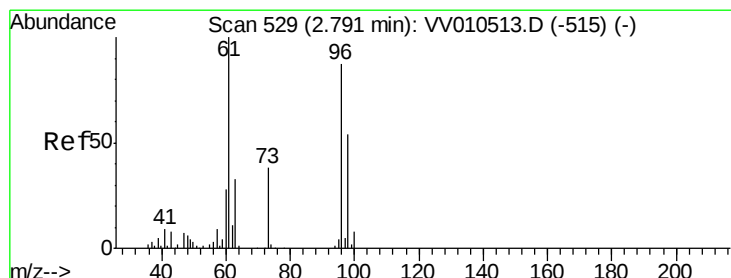
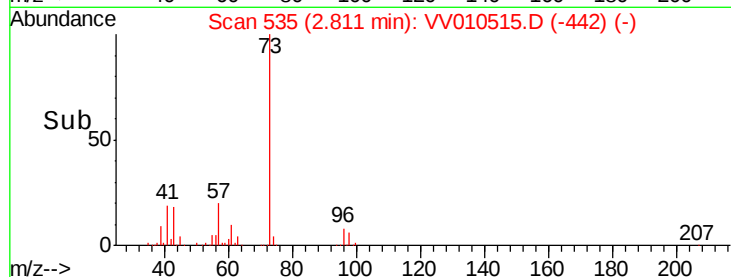
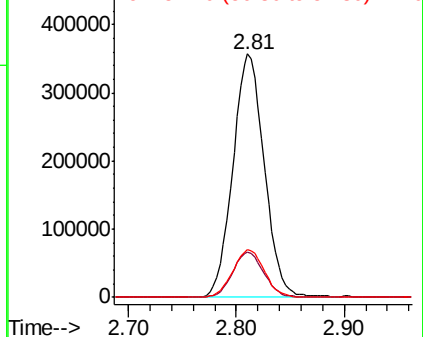
57 19.7 16.0 24.0



Abundance Ion 73.10 (72.80 to 73.80): VV010515.D (-442) (-)

Ion 43.05 (42.75 to 43.75): VV010515.D (-442) (-)

Ion 57.10 (56.80 to 57.80): VV010515.D (-442) (-)



#18

trans-1,2-Dichloroethene

Concen: 19.691 ug/L

RT: 2.79 min Scan# 528

Delta R.T. -0.00 min

Lab File: VV010515.D

Acq: 26 Apr 2019 20:48

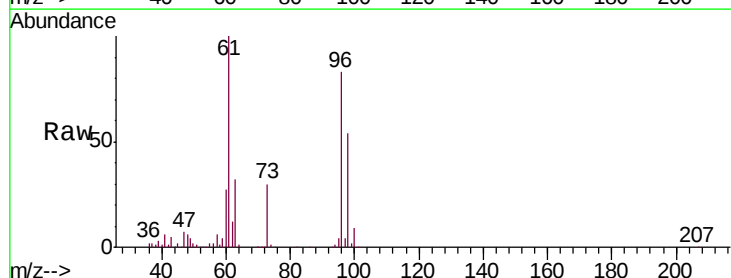
Tgt Ion: 96 Resp: 361140

Ion Ratio Lower Upper

96 100

61 121.1 80.2 148.9

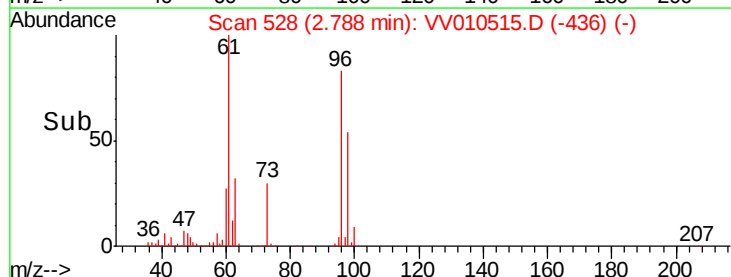
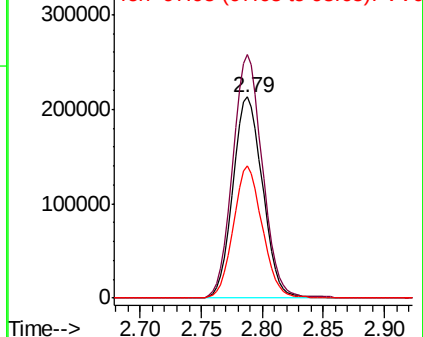
98 65.6 43.3 80.3

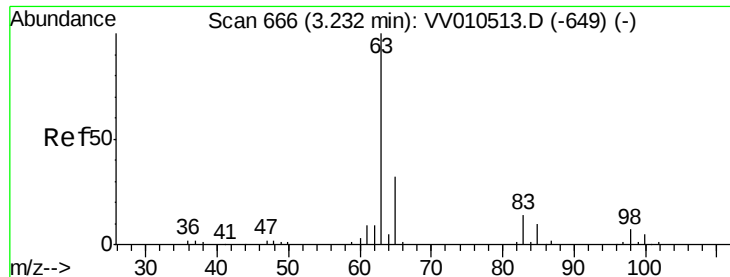


Abundance Ion 96.00 (95.70 to 96.70): VV010515.D (-436) (-)

Ion 61.05 (60.75 to 61.75): VV010515.D (-436) (-)

Ion 97.95 (97.65 to 98.65): VV010515.D (-436) (-)

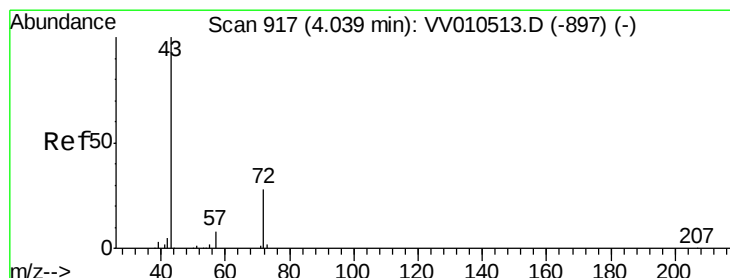
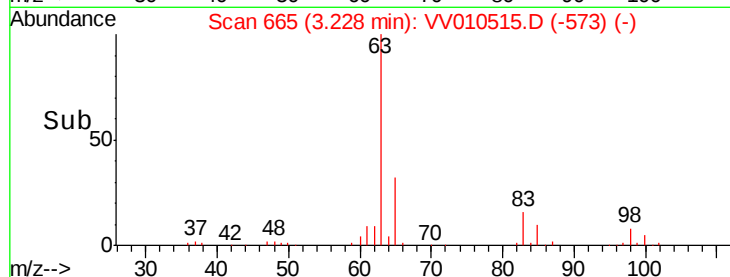
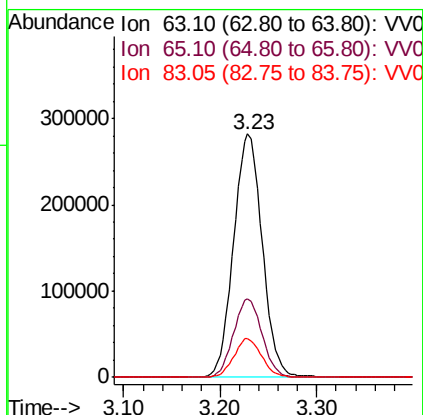
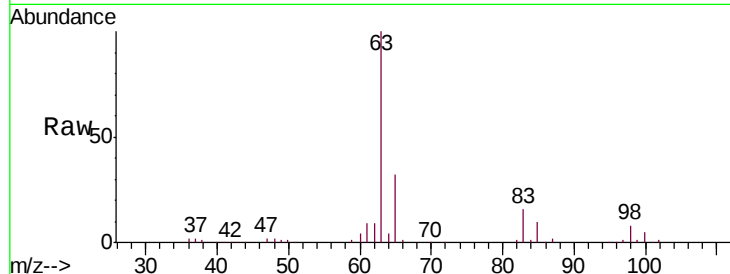




#19
 1,1-Dichloroethane
 Concen: 19.709 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV010515.D
 Acq: 26 Apr 2019 20:48

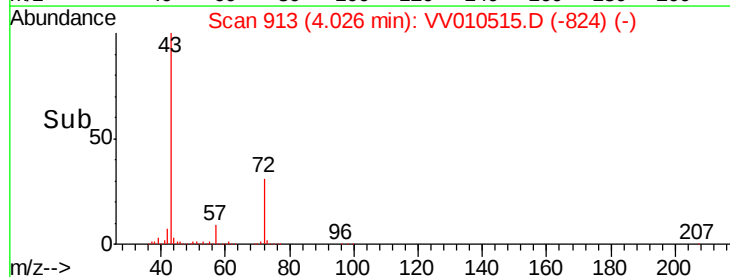
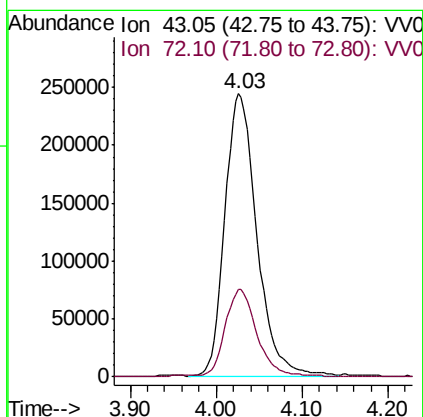
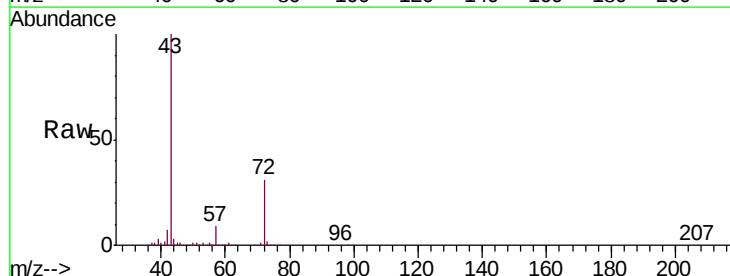
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02038

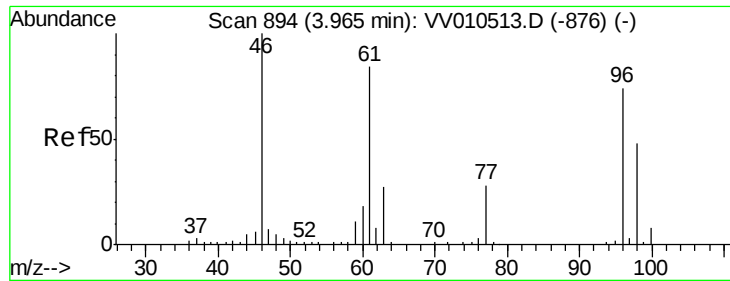
Tgt Ion: 63 Resp: 581612
 Ion Ratio Lower Upper
 63 100
 65 32.2 22.6 42.0
 83 15.8 9.8 18.2



#21
 2-Butanone
 Concen: 175.169 ug/L
 RT: 4.03 min Scan# 913
 Delta R.T. -0.01 min
 Lab File: VV010515.D
 Acq: 26 Apr 2019 20:48

Tgt Ion: 43 Resp: 627331
 Ion Ratio Lower Upper
 43 100
 72 30.5 14.6 43.8



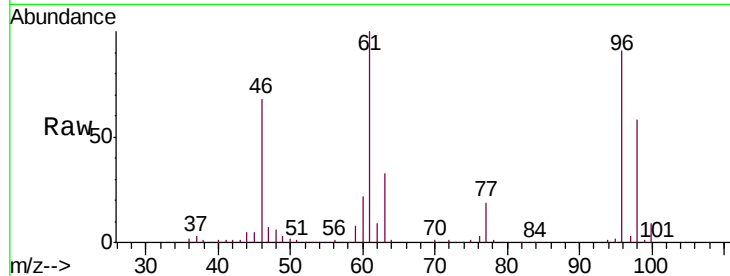


#22

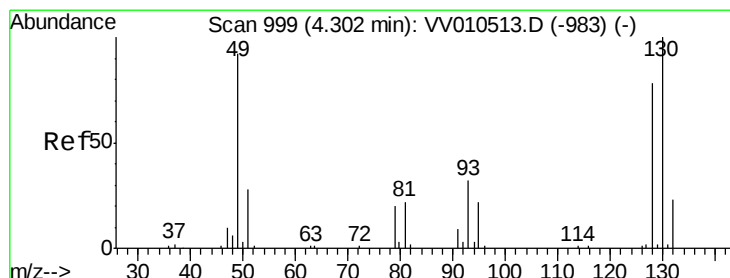
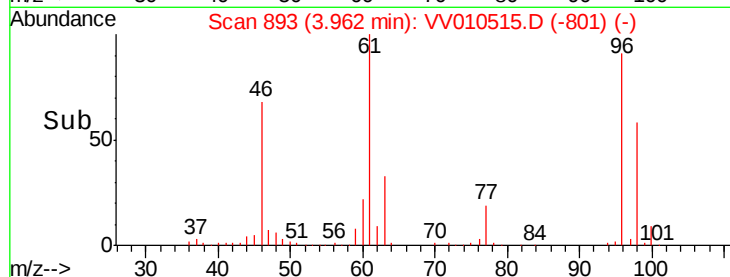
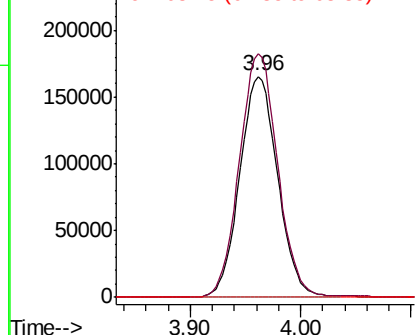
cis-1,2-Dichloroethene
 Concen: 20.623 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. -0.00 min
 Lab File: VV010515.D
 Acq: 26 Apr 2019 20:48

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02038

Tgt Ion: 96 Resp: 394371
 Ion Ratio Lower Upper
 96 100
 61 110.2 79.9 148.3
 68 0.0 0.0 0.0



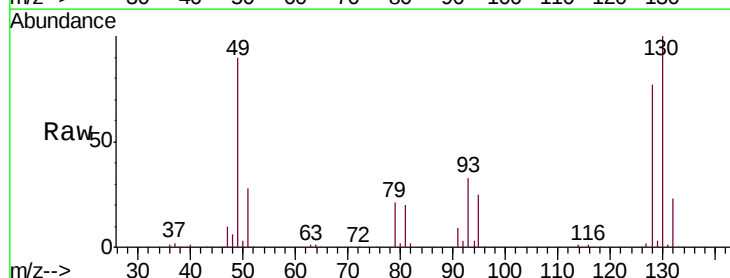
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



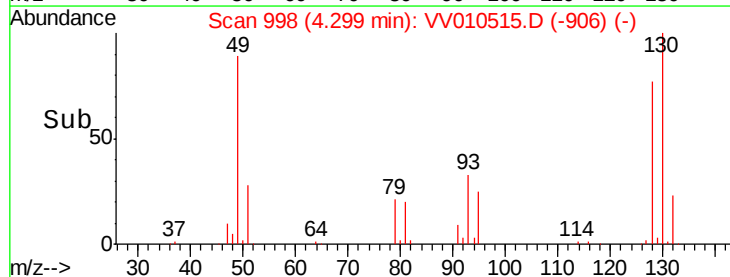
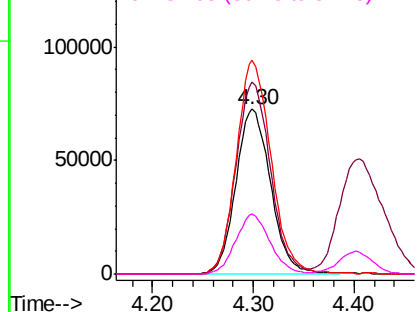
#23

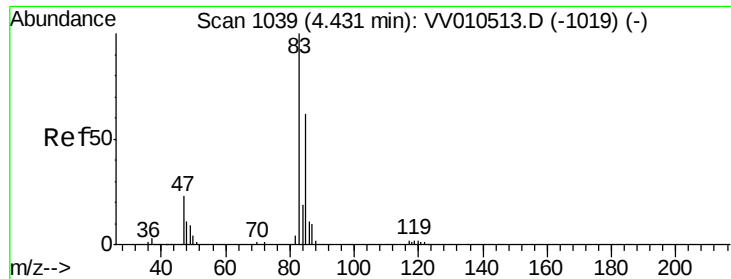
Bromochloromethane
 Concen: 20.324 ug/L
 RT: 4.30 min Scan# 998
 Delta R.T. -0.00 min
 Lab File: VV010515.D
 Acq: 26 Apr 2019 20:48

Tgt Ion: 128 Resp: 173807
 Ion Ratio Lower Upper
 128 100
 49 116.2 82.3 152.9
 130 129.5 89.8 166.8
 51 36.6 29.0 43.6



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: 19.375 ug/L

RT: 4.43 min Scan# 1038

Delta R.T. -0.00 min

Lab File: VV010515.D

Acq: 26 Apr 2019 20:48

Instrument :

MSVOA_V

ClientSampleId :

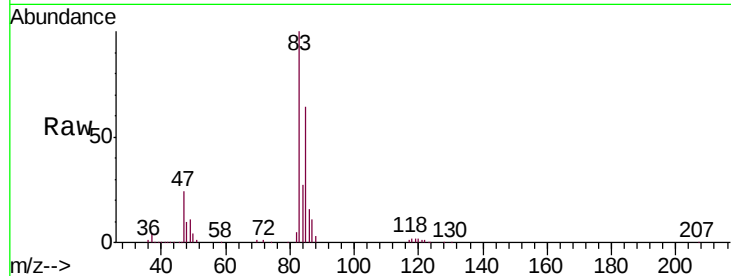
VSTD02038

Tgt Ion: 83 Resp: 664063

Ion Ratio Lower Upper

83 100

85 64.0 43.6 81.0



Abundance Ion 83.05 (82.75 to 83.75): VV0

Ion 85.00 (84.70 to 85.70): VV0

4.43

300000

250000

200000

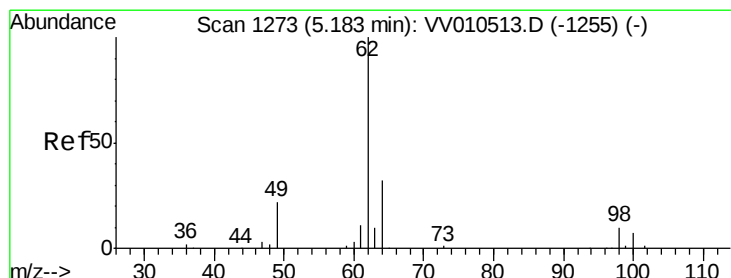
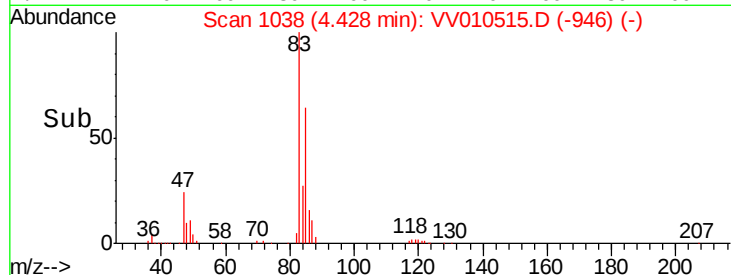
150000

100000

50000

0

Time-->



#27

1,2-Dichloroethane

Concen: 18.411 ug/L

RT: 5.18 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VV010515.D

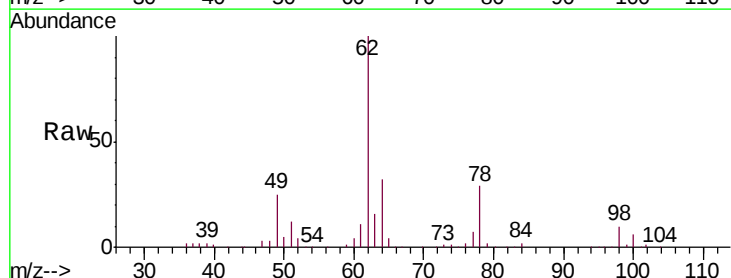
Acq: 26 Apr 2019 20:48

Tgt Ion: 62 Resp: 371344

Ion Ratio Lower Upper

62 100

98 9.6 7.6 11.4



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.05 (97.75 to 98.75): VV0

200000

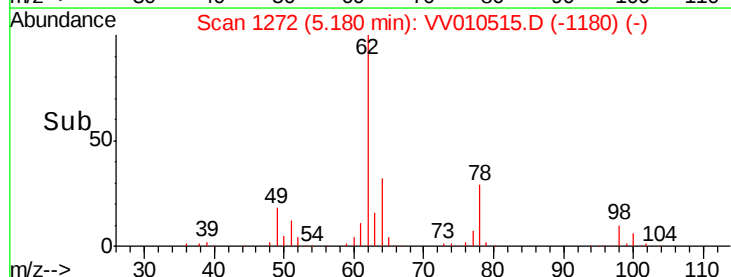
150000

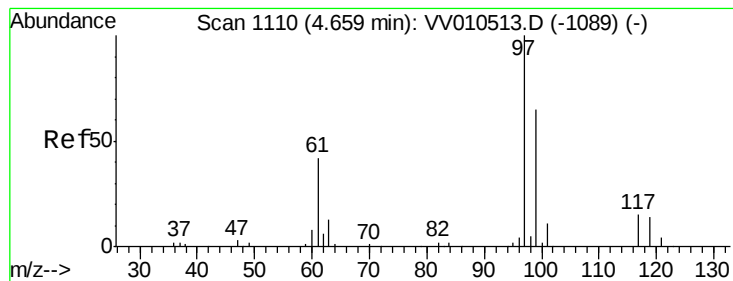
100000

50000

0

Time-->





#29

1,1,1-Trichloroethane

Concen: 20.814 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VV010515.D

Acq: 26 Apr 2019 20:48

Instrument :

MSVOA_V

ClientSampleId :

VSTD02038

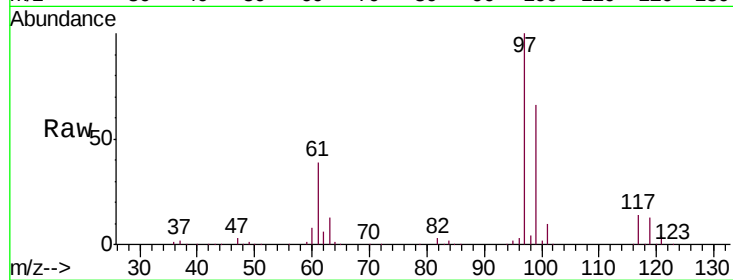
Tgt Ion: 97 Resp: 619579

Ion Ratio Lower Upper

97 100

99 64.4 51.8 77.6

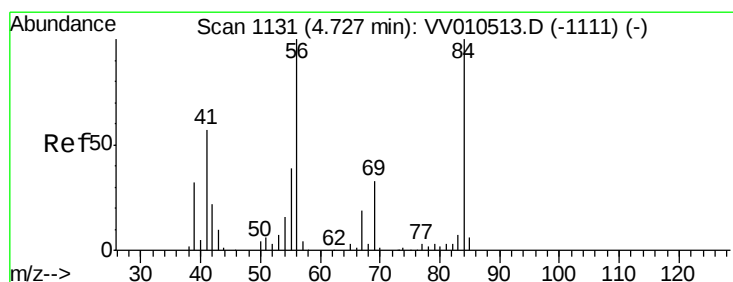
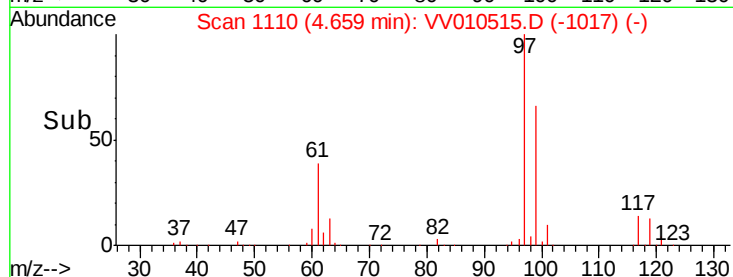
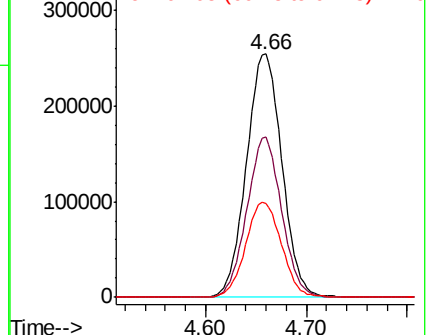
61 39.5 31.6 47.4



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: 19.935 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV010515.D

Acq: 26 Apr 2019 20:48

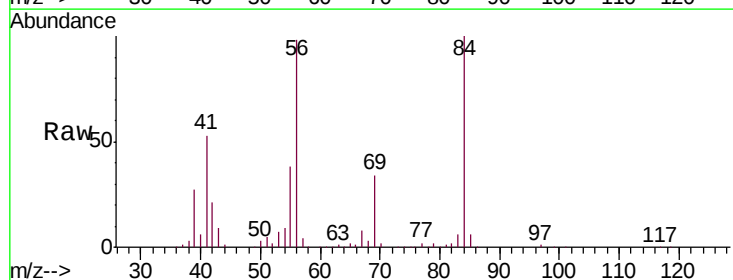
Tgt Ion: 56 Resp: 489755

Ion Ratio Lower Upper

56 100

69 34.3 27.1 40.7

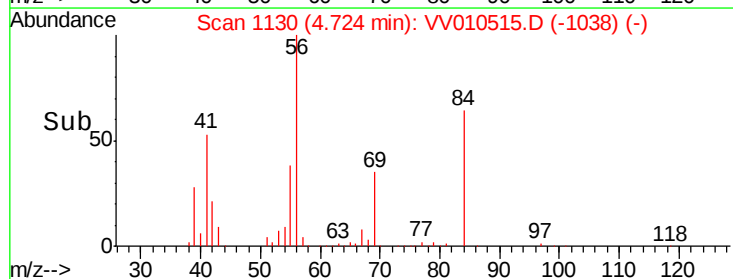
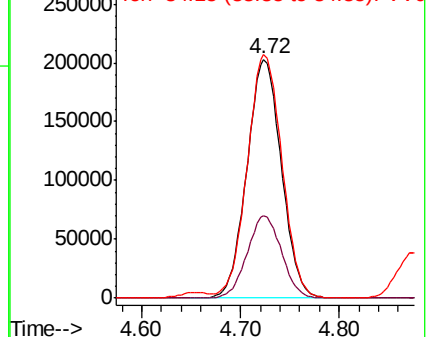
84 102.8 80.4 120.6

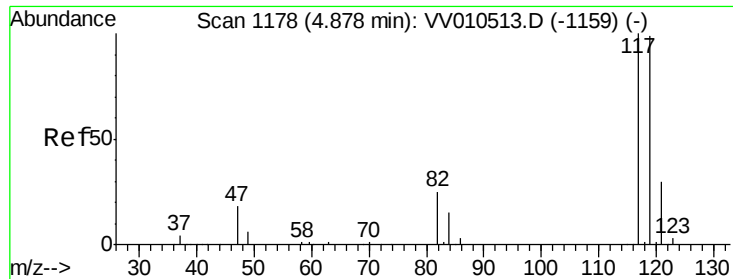


Abundance Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0

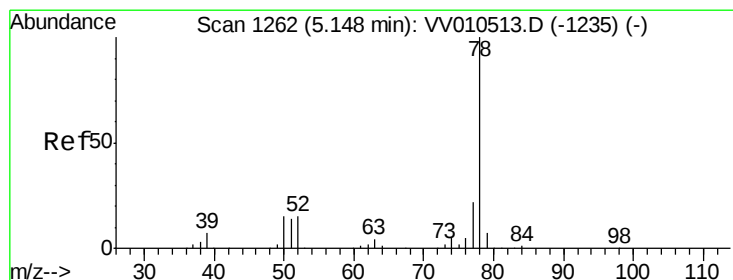
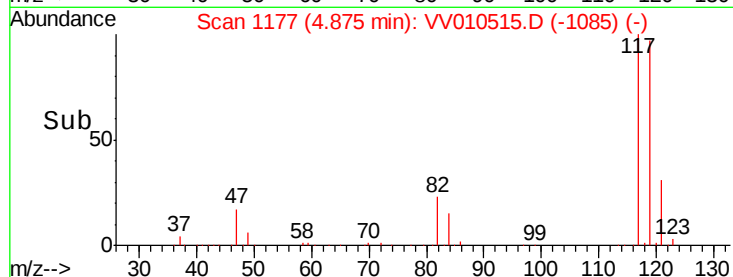
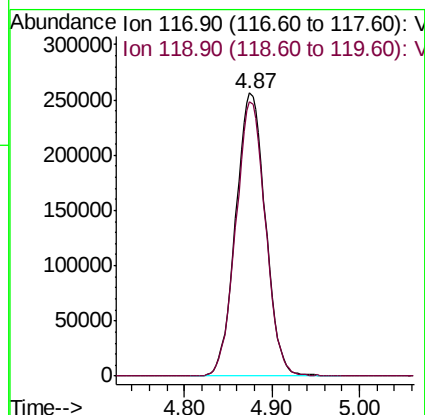
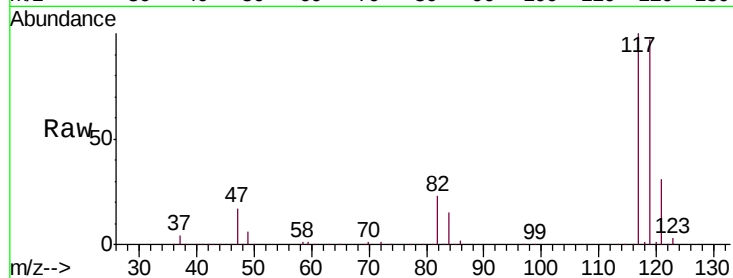




#31
Carbon tetrachloride
Concen: 22.253 ug/L
RT: 4.87 min Scan# 1177
Delta R.T. -0.00 min
Lab File: VV010515.D
Acq: 26 Apr 2019 20:48

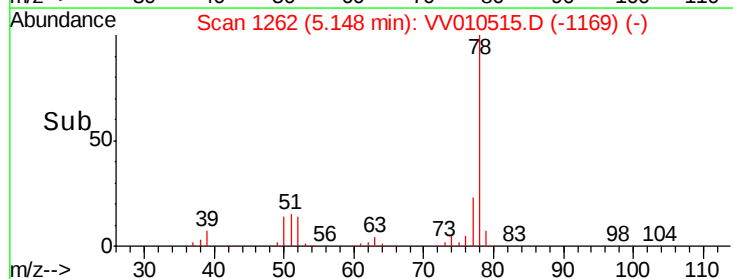
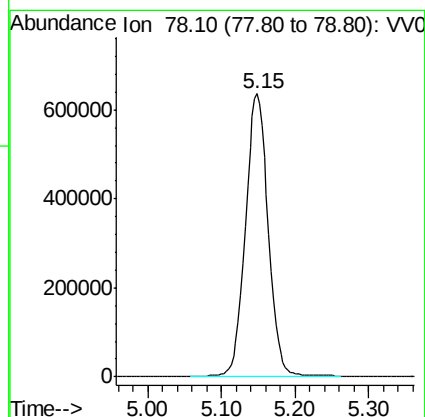
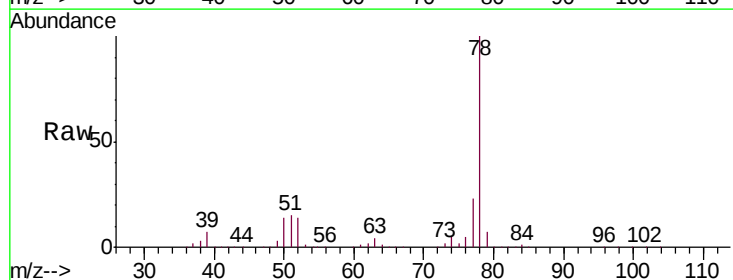
Instrument :
MSVOA_V
ClientSampleId :
VSTD02038

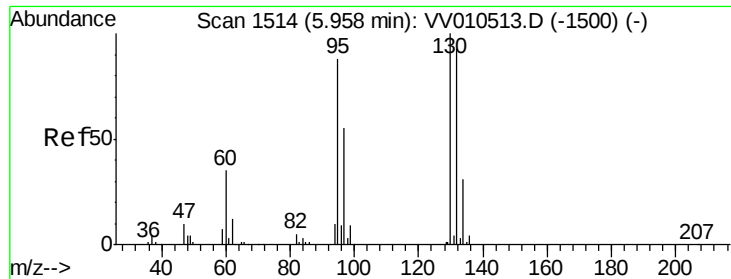
Tgt Ion:117 Resp: 605100
Ion Ratio Lower Upper
117 100
119 96.4 77.8 116.6



#33
Benzene
Concen: 20.971 ug/L
RT: 5.15 min Scan# 1262
Delta R.T. 0.00 min
Lab File: VV010515.D
Acq: 26 Apr 2019 20:48

Tgt Ion: 78 Resp: 1377084

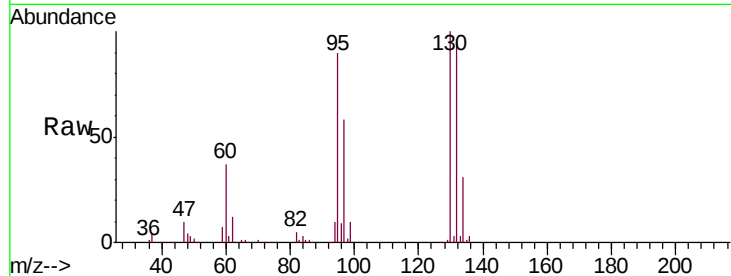




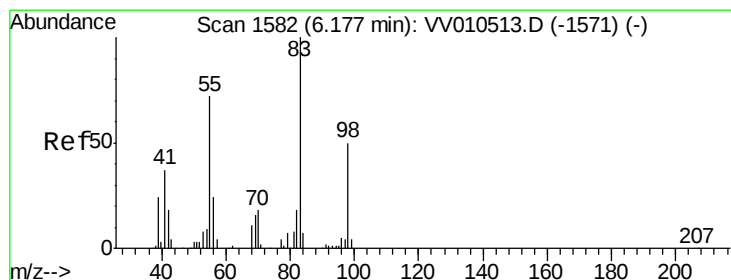
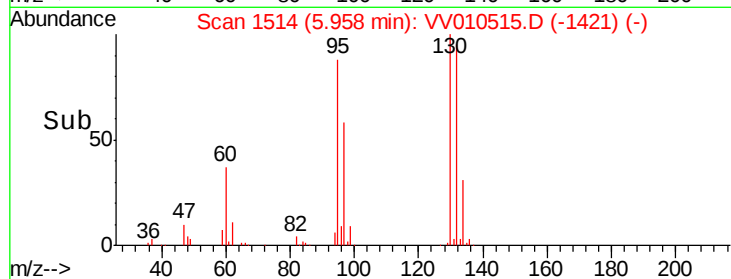
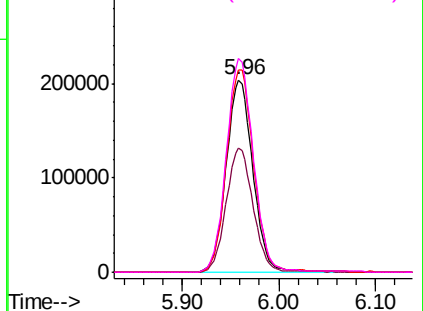
#34
 Trichloroethene
 Concen: 20.730 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV010515.D
 Acq: 26 Apr 2019 20:48

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02038

Tgt Ion:	95	Resp:	391800
Ion	Ratio	Lower	Upper
95	100		
97	64.4	43.3	80.5
132	105.1	74.1	137.5
130	110.9	79.5	147.6

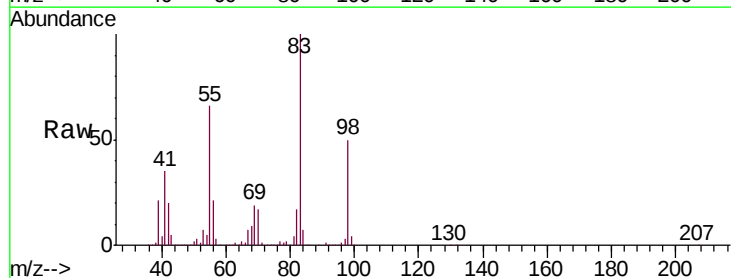


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

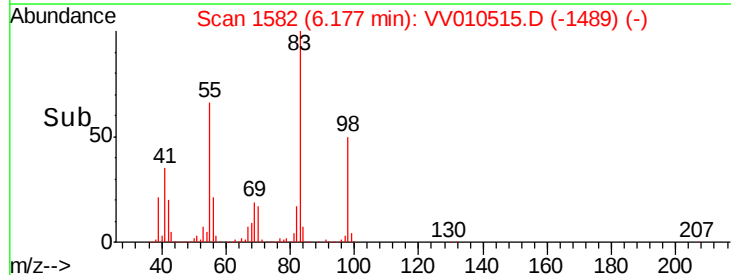
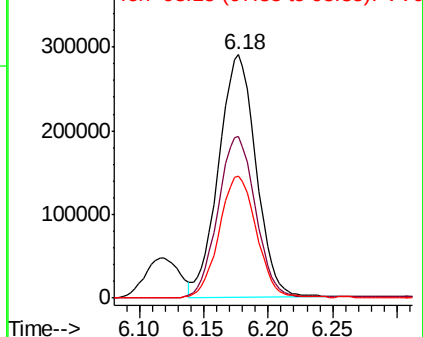


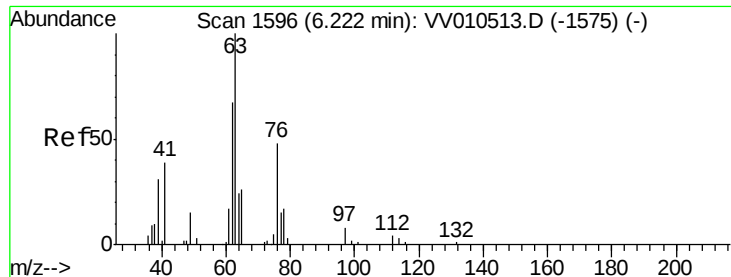
#35
 Methylcyclohexane
 Concen: 21.276 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VV010515.D
 Acq: 26 Apr 2019 20:48

Tgt Ion:	83	Resp:	580661
Ion	Ratio	Lower	Upper
83	100		
55	67.4	58.0	87.0
98	49.8	40.4	60.6



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: 19.414 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VV010515.D

Acq: 26 Apr 2019 20:48

Instrument :

MSVOA_V

ClientSampleId :

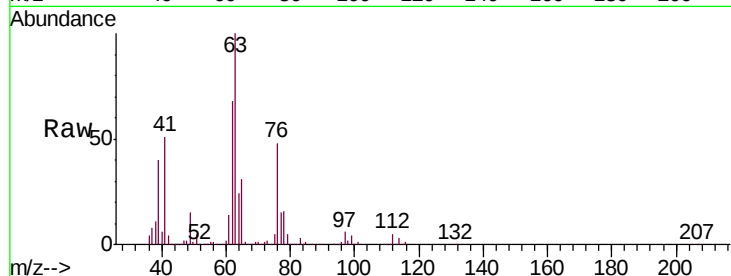
VSTD02038

Tgt Ion: 63 Resp: 310305

Ion Ratio Lower Upper

63 100

112 5.4 3.7 5.5



Abundance Ion 63.10 (62.80 to 63.80): VV010515.D (-1503) (-)

Ion 112.10 (111.80 to 112.80): VV010515.D (-1503) (-)

6.22

150000

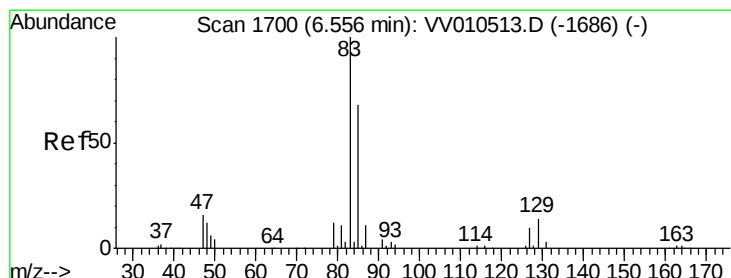
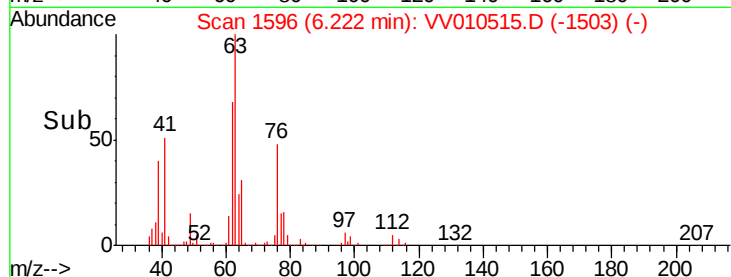
100000

50000

0

6.10 6.15 6.20 6.25 6.30

Time-->



#38

Bromodichloromethane

Concen: 20.962 ug/L

RT: 6.56 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VV010515.D

Acq: 26 Apr 2019 20:48

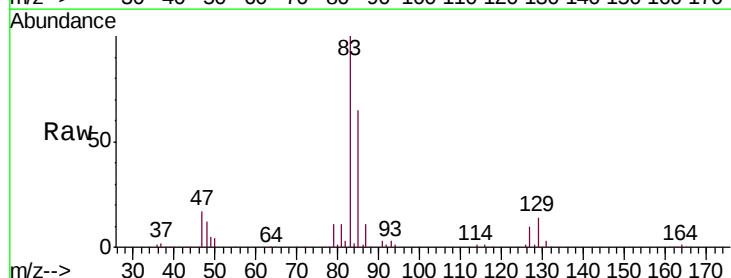
Tgt Ion: 83 Resp: 448846

Ion Ratio Lower Upper

83 100

85 65.0 47.5 88.1

127 10.1 8.2 12.4



Abundance Ion 82.95 (82.65 to 83.65): VV010515.D (-1607) (-)

Ion 85.00 (84.70 to 85.70): VV010515.D (-1607) (-)

Ion 126.90 (126.60 to 127.60): VV010515.D (-1607) (-)

6.56

300000

250000

200000

150000

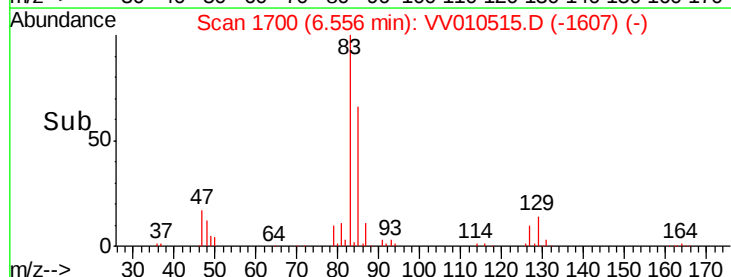
100000

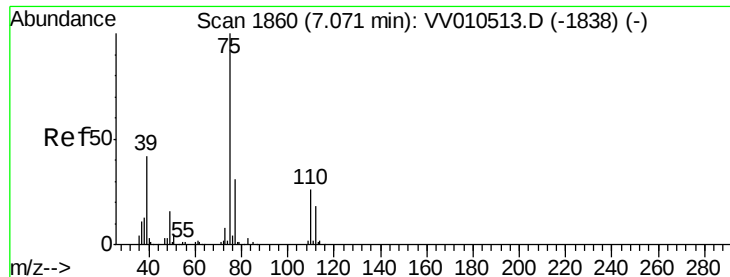
50000

0

6.50 6.55 6.60 6.65 6.70

Time-->

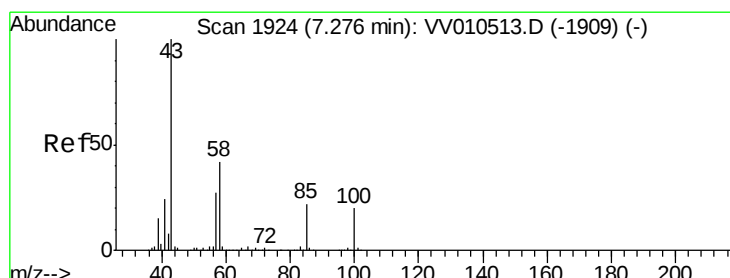
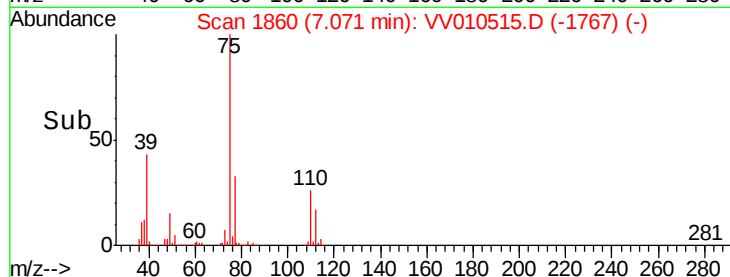
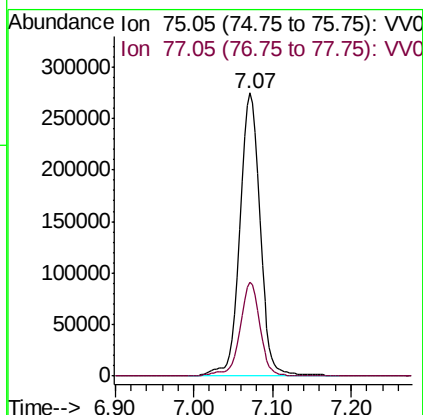
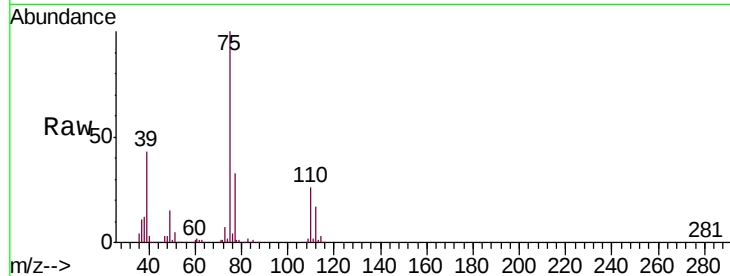




#39
 cis-1,3-Dichloropropene
 Concen: 21.256 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV010515.D
 Acq: 26 Apr 2019 20:48

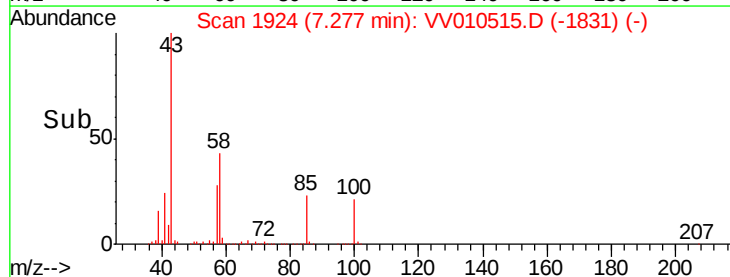
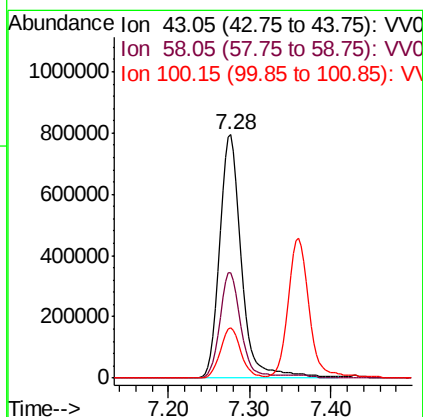
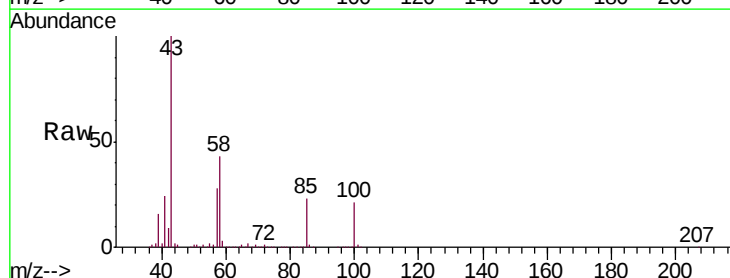
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02038

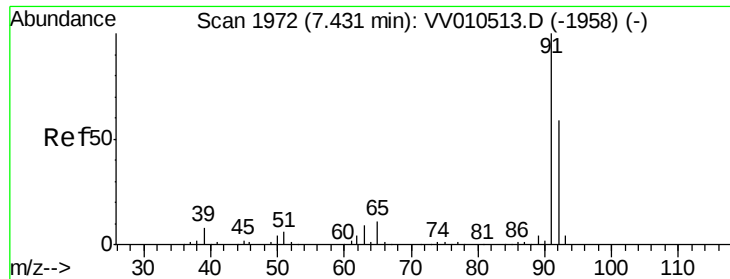
Tgt Ion: 75 Resp: 495483
 Ion Ratio Lower Upper
 75 100
 77 33.3 21.6 40.0



#40
 4-Methyl-2-pentanone
 Concen: 169.310 ug/L
 RT: 7.28 min Scan# 1924
 Delta R.T. 0.00 min
 Lab File: VV010515.D
 Acq: 26 Apr 2019 20:48

Tgt Ion: 43 Resp: 1515833
 Ion Ratio Lower Upper
 43 100
 58 41.5 31.9 47.9
 100 19.5 15.0 22.4





#42

Toluene

Concen: 20.467 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV010515.D

Acq: 26 Apr 2019 20:48

Instrument :

MSVOA_V

ClientSampleId :

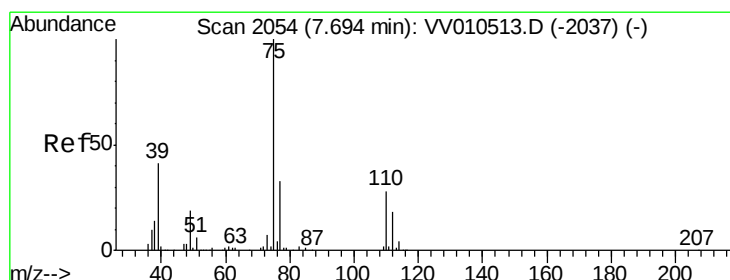
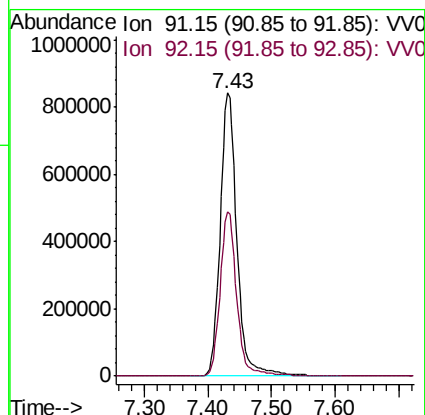
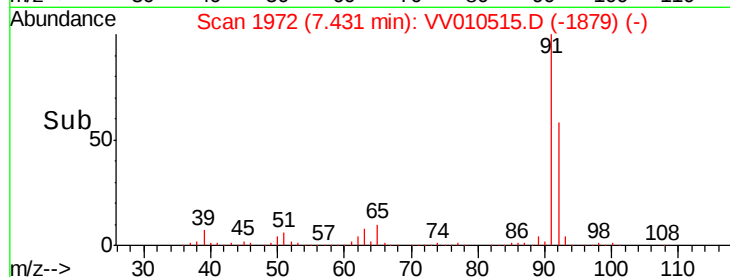
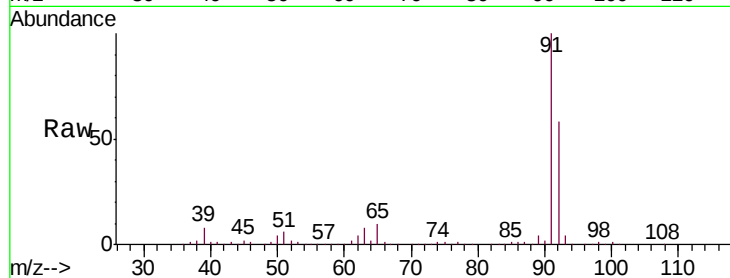
VSTD02038

Tgt Ion: 91 Resp: 1533293

Ion Ratio Lower Upper

91 100

92 58.3 41.1 76.3



#44

trans-1,3-Dichloropropene

Concen: 21.303 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV010515.D

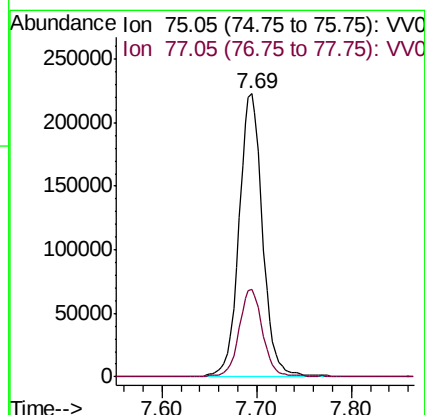
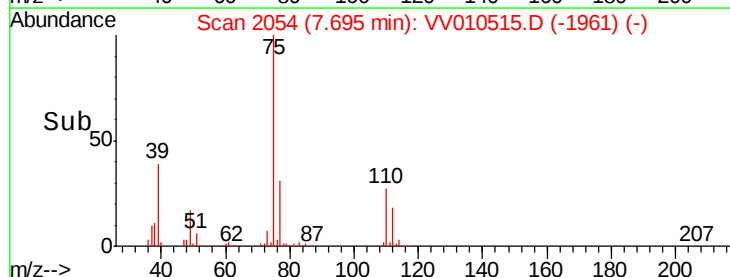
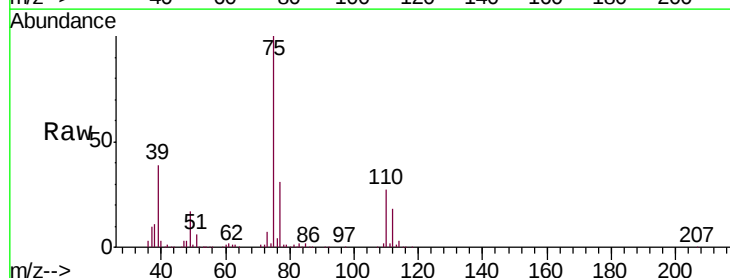
Acq: 26 Apr 2019 20:48

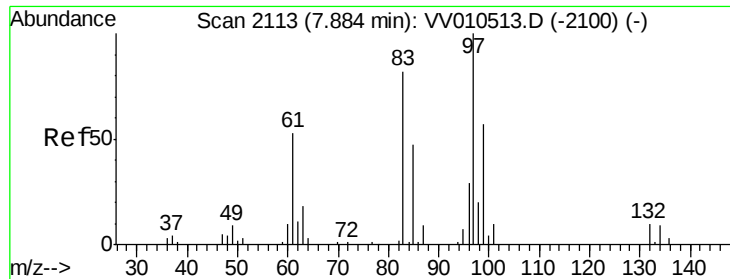
Tgt Ion: 75 Resp: 385458

Ion Ratio Lower Upper

75 100

77 30.9 23.0 42.6

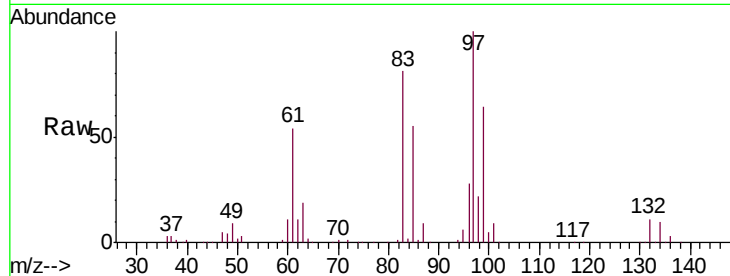




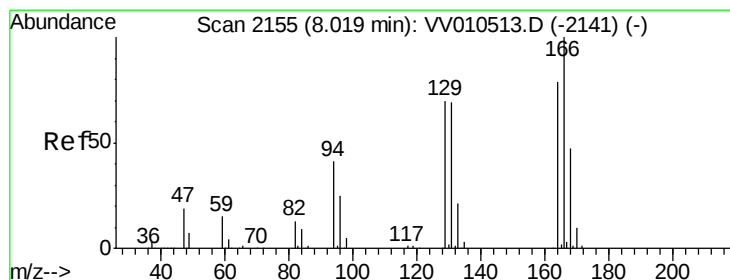
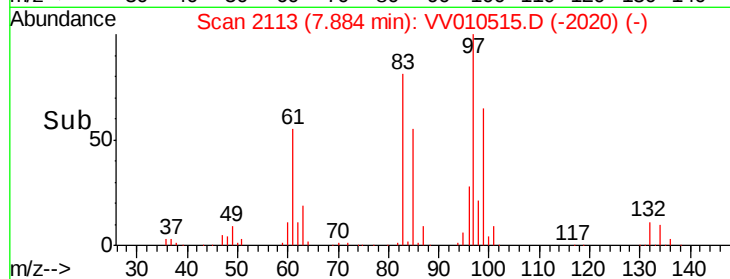
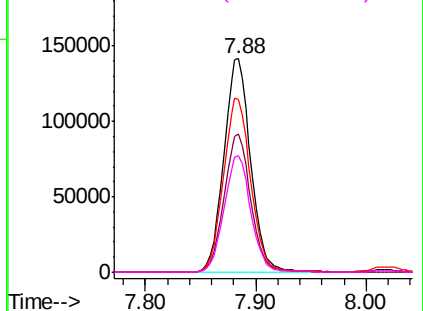
#45
 1,1,2-Trichloroethane
 Concen: 19.980 ug/L
 RT: 7.88 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VV010515.D
 Acq: 26 Apr 2019 20:48

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02038

Tgt Ion:	97	Resp:	238590
Ion	Ratio	Lower	Upper
97	100		
99	64.5	39.5	73.4
83	81.2	57.7	107.3
85	54.6	32.8	61.0

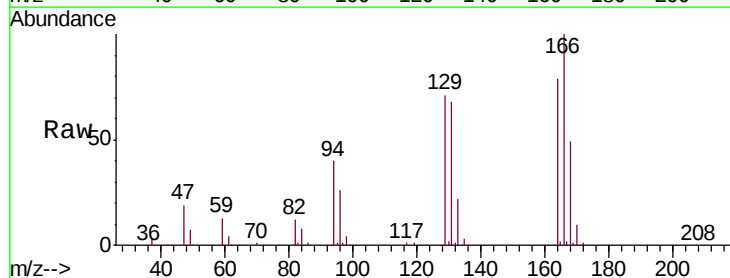


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

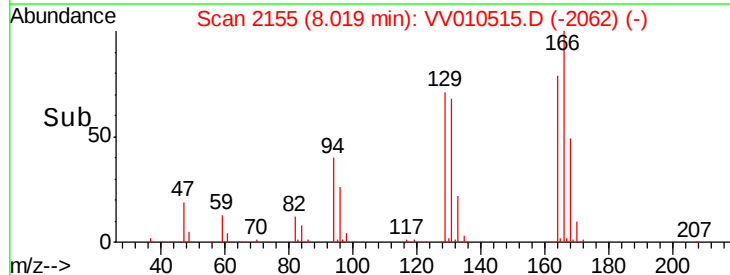
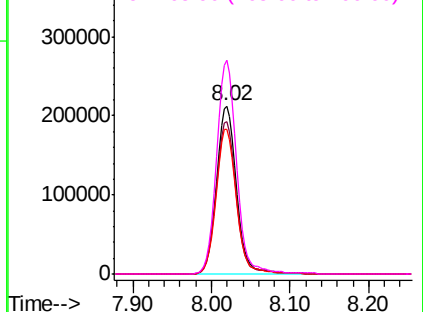


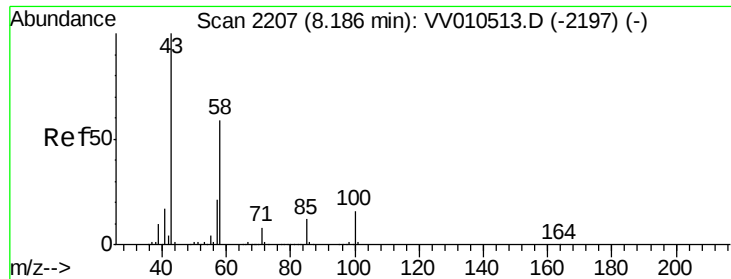
#47
 Tetrachloroethene
 Concen: 21.769 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VV010515.D
 Acq: 26 Apr 2019 20:48

Tgt Ion:	164	Resp:	373499
Ion	Ratio	Lower	Upper
164	100		
129	90.5	62.2	115.4
131	86.3	61.5	114.1
166	127.0	89.1	165.5



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

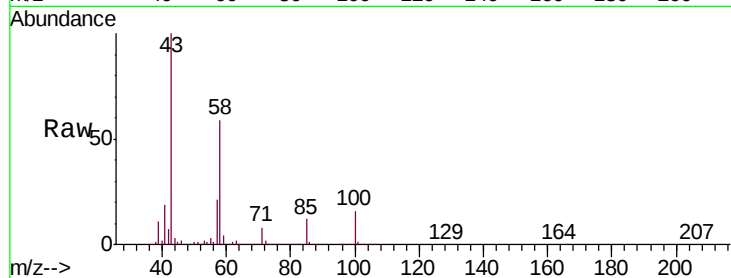




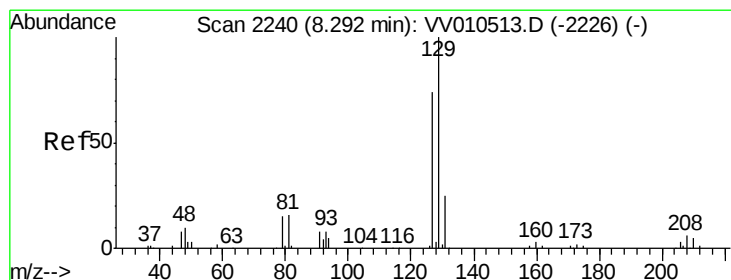
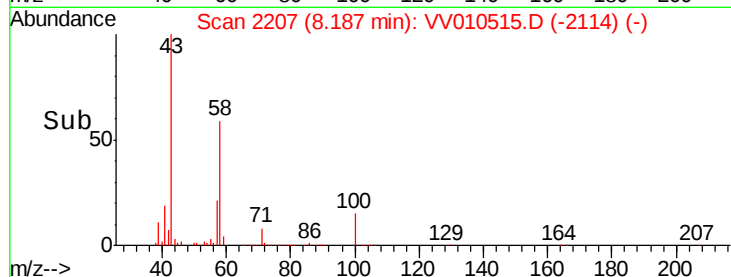
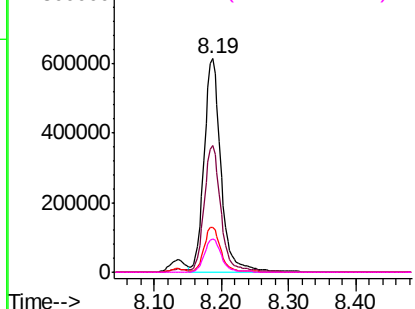
#48
2-Hexanone
Concen: 170.907 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV010515.D
Acq: 26 Apr 2019 20:48

Instrument :
MSVOA_V
ClientSampleId :
VSTD02038

Tgt Ion: 43 Resp: 1064607
Ion Ratio Lower Upper
43 100
58 57.1 43.1 64.7
57 20.8 16.3 24.5
100 15.8 11.8 17.8

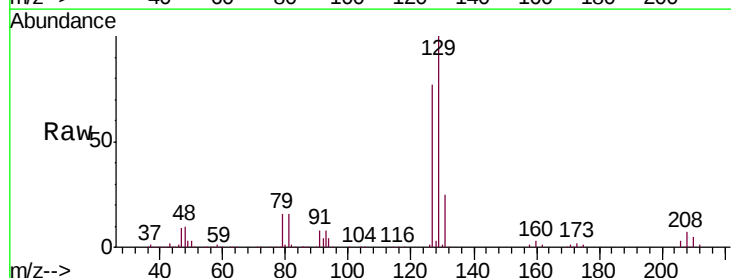


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

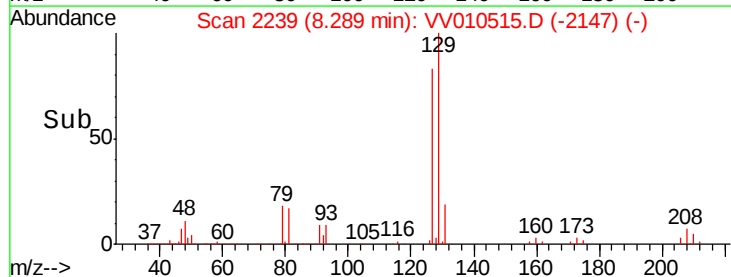
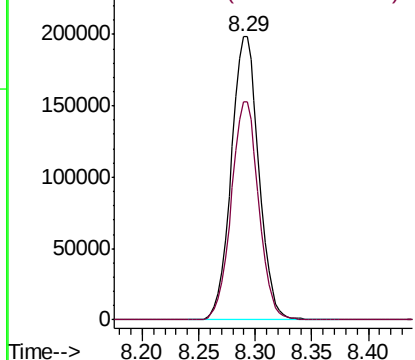


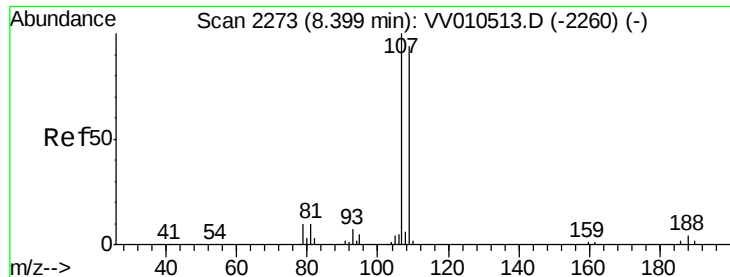
#49
Dibromochloromethane
Concen: 21.953 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV010515.D
Acq: 26 Apr 2019 20:48

Tgt Ion: 129 Resp: 336989
Ion Ratio Lower Upper
129 100
127 77.0 51.9 96.5



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

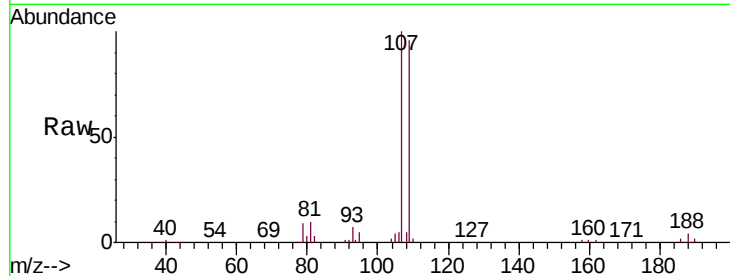




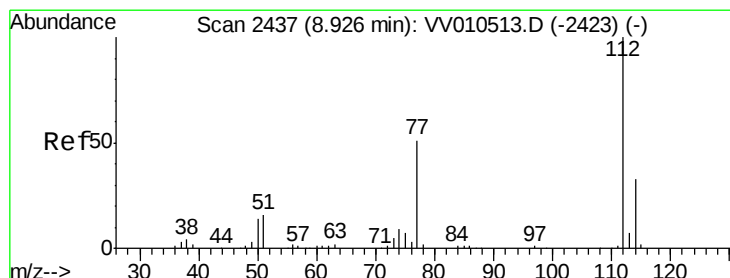
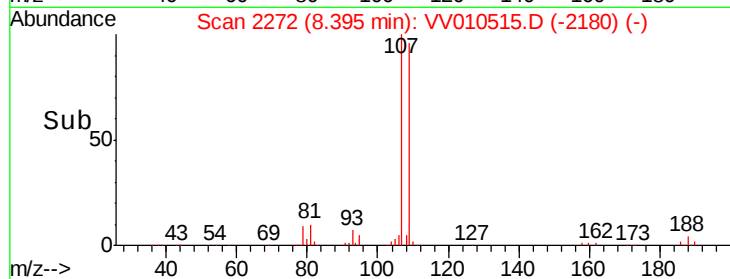
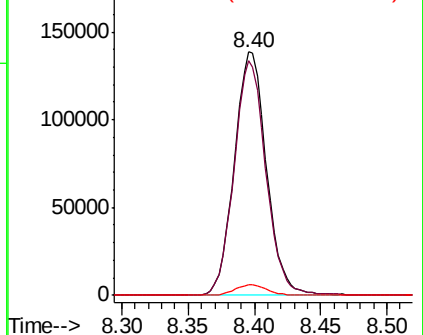
#50
1,2-Dibromoethane
Concen: 20.295 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VV010515.D
Acq: 26 Apr 2019 20:48

Instrument :
MSVOA_V
ClientSampleId :
VSTD02038

Tgt Ion:107 Resp: 233304
Ion Ratio Lower Upper
107 100
109 96.5 65.5 121.6
188 4.3 3.6 5.4

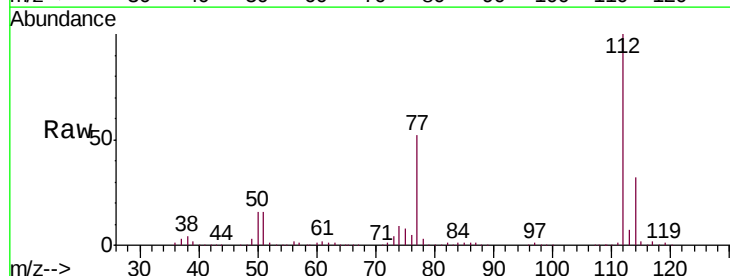


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

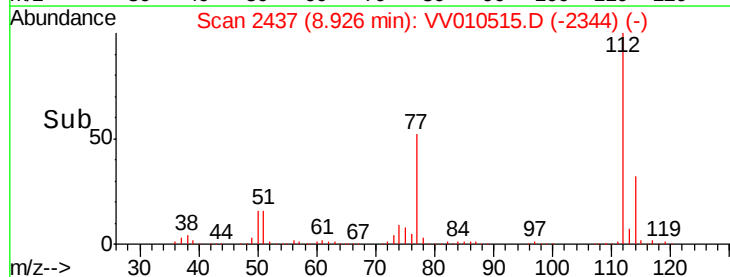
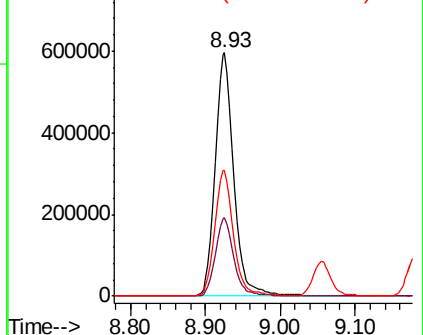


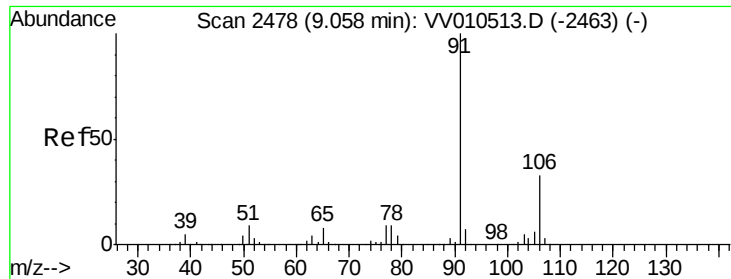
#51
Chlorobenzene
Concen: 20.185 ug/L
RT: 8.93 min Scan# 2437
Delta R.T. 0.00 min
Lab File: VV010515.D
Acq: 26 Apr 2019 20:48

Tgt Ion:112 Resp: 1030176
Ion Ratio Lower Upper
112 100
114 32.3 22.7 42.3
77 51.6 41.0 61.6



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: 20.543 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV010515.D

Acq: 26 Apr 2019 20:48

Instrument :

MSVOA_V

ClientSampleId :

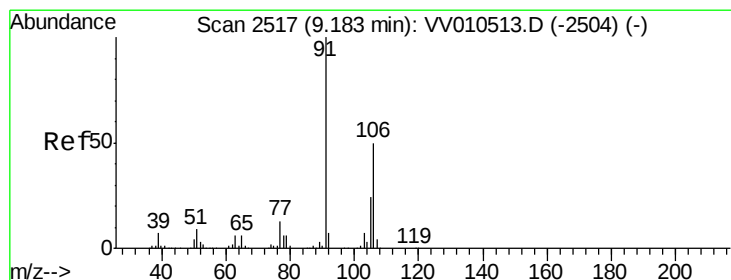
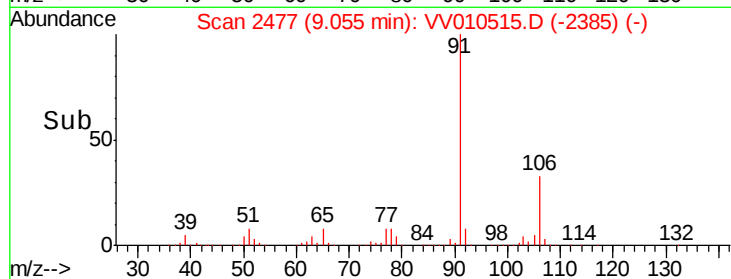
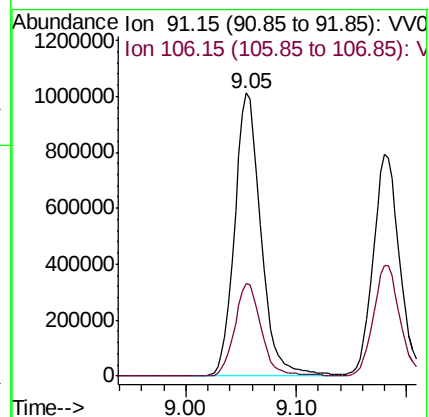
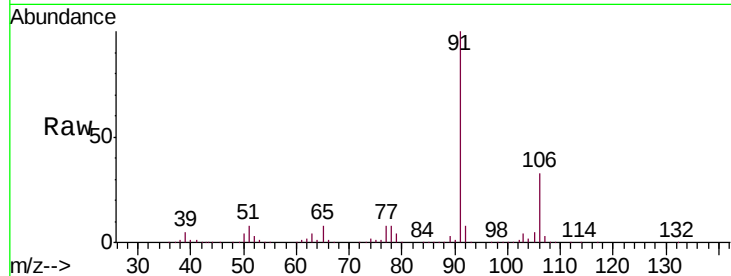
VSTD02038

Tgt Ion: 91 Resp: 1683959

Ion Ratio Lower Upper

91 100

106 32.9 23.0 42.6



#53

m,p-xylene

Concen: 21.213 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV010515.D

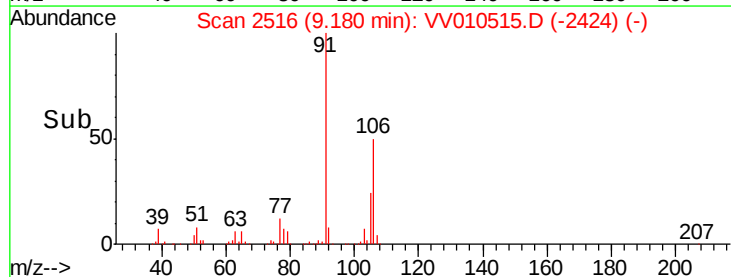
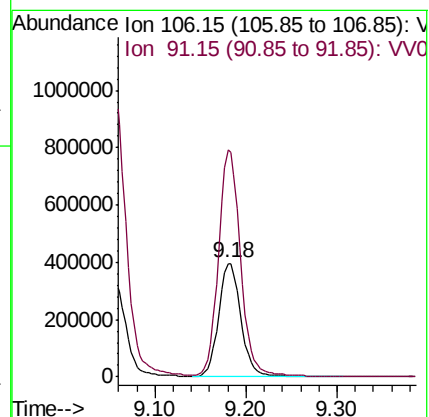
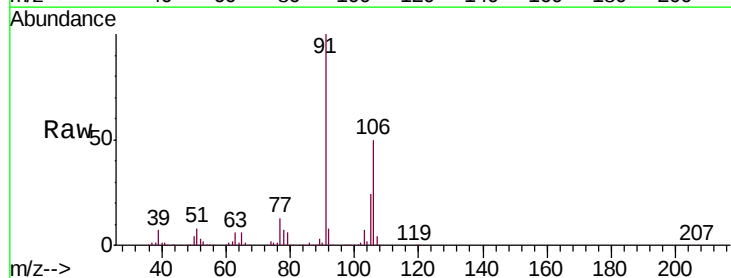
Acq: 26 Apr 2019 20:48

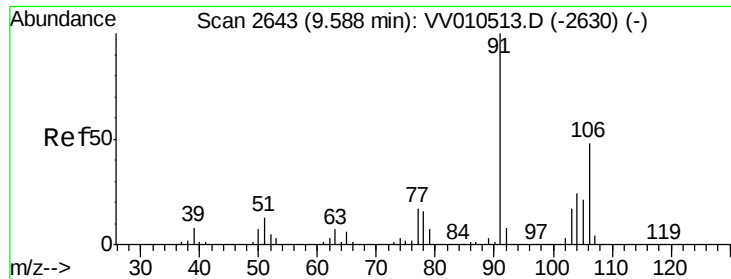
Tgt Ion: 106 Resp: 679372

Ion Ratio Lower Upper

106 100

91 199.5 140.5 260.9





#54

o-xylene

Concen: 20.625 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV010515.D

Acq: 26 Apr 2019 20:48

Instrument :

MSVOA_V

ClientSampleId :

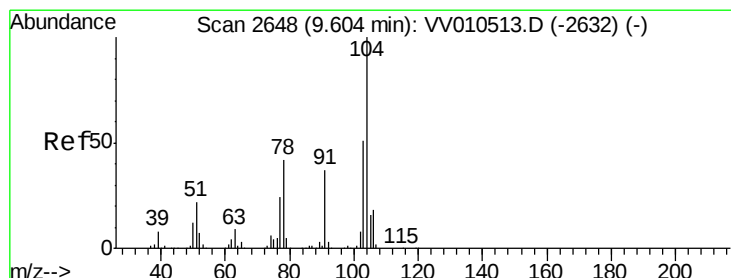
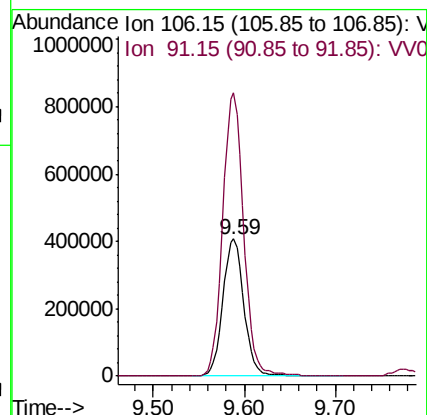
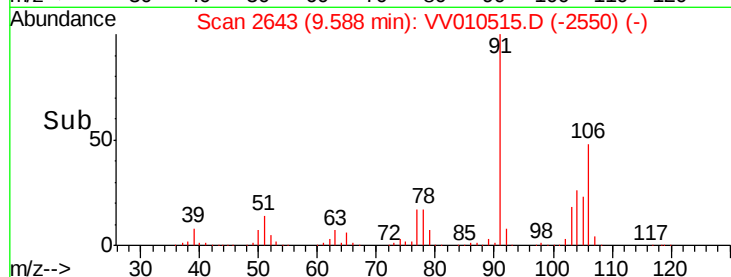
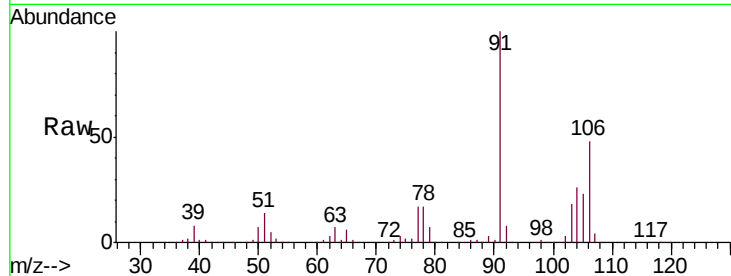
VSTD02038

Tgt Ion:106 Resp: 654918

Ion Ratio Lower Upper

106 100

91 206.6 146.4 272.0



#55

Styrene

Concen: 20.827 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV010515.D

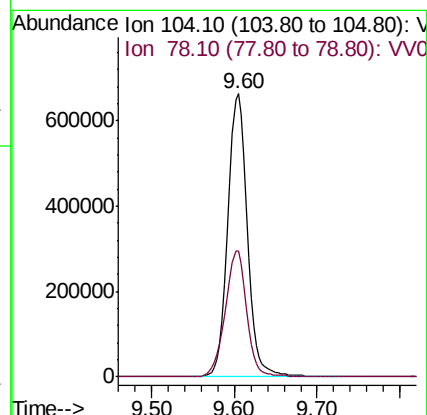
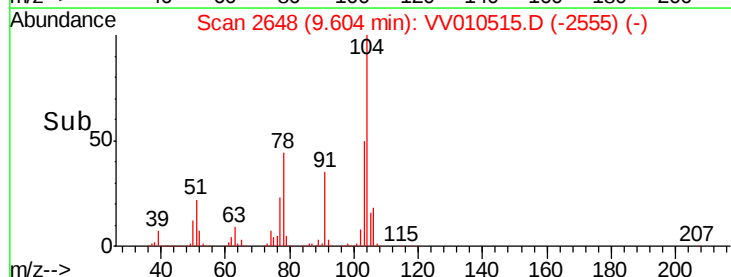
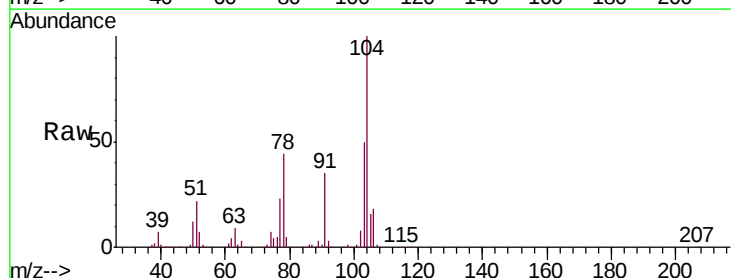
Acq: 26 Apr 2019 20:48

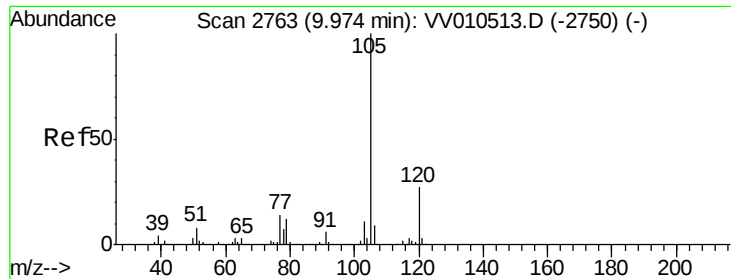
Tgt Ion:104 Resp: 1079425

Ion Ratio Lower Upper

104 100

78 44.4 29.5 54.9





#56

Isopropylbenzene

Concen: 20.665 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV010515.D

Acq: 26 Apr 2019 20:48

Instrument :

MSVOA_V

ClientSampleId :

VSTD02038

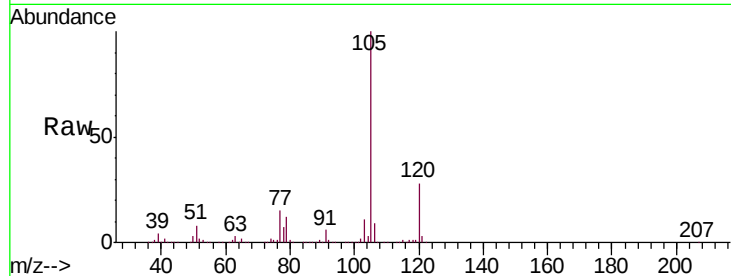
Tgt Ion:105 Resp: 1731162

Ion Ratio Lower Upper

105 100

120 27.6 21.9 32.9

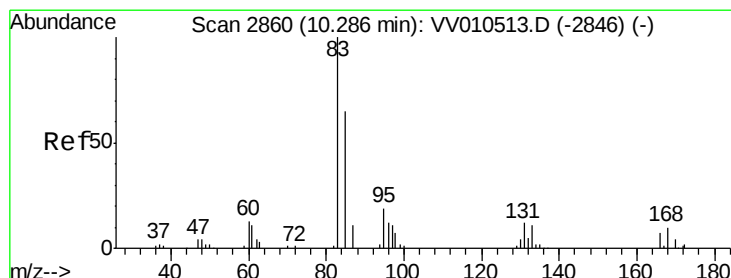
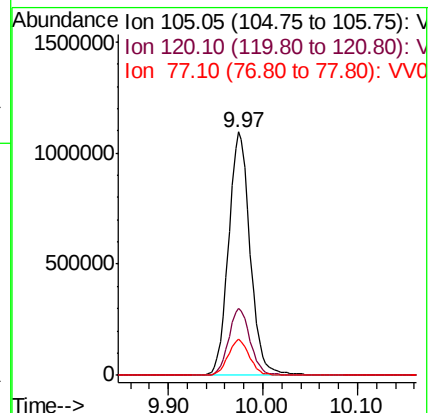
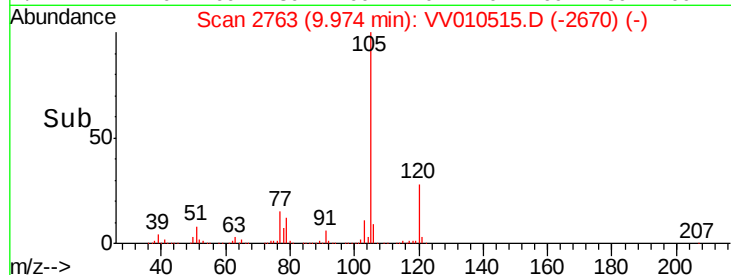
77 14.5 11.6 17.4



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: 18.714 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV010515.D

Acq: 26 Apr 2019 20:48

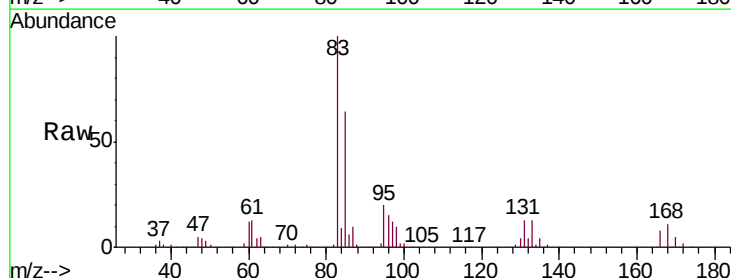
Tgt Ion: 83 Resp: 256205

Ion Ratio Lower Upper

83 100

85 63.8 45.6 84.6

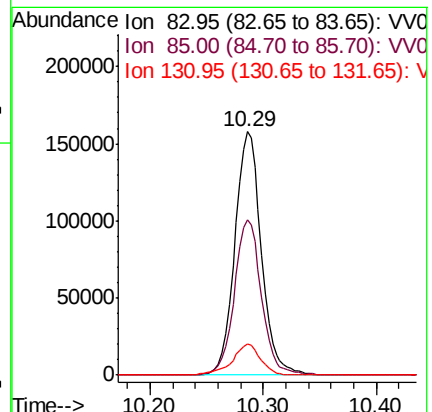
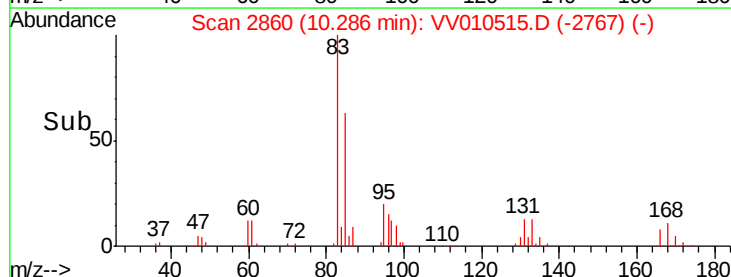
131 12.8 9.8 14.8

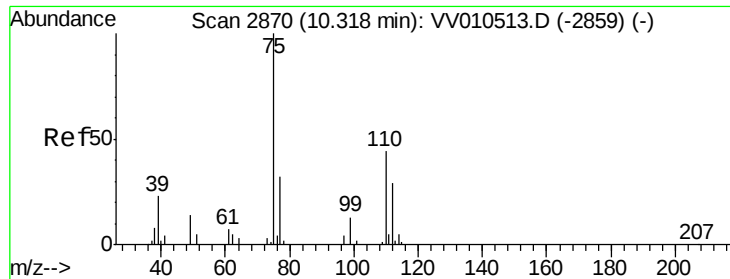


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

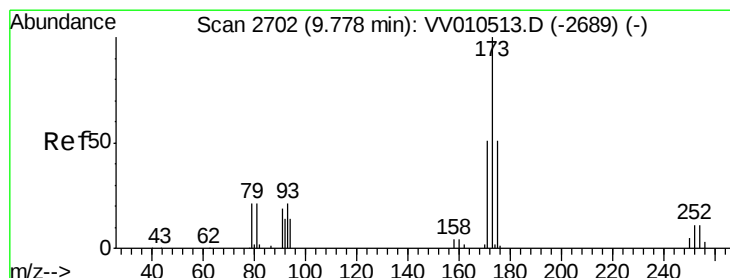
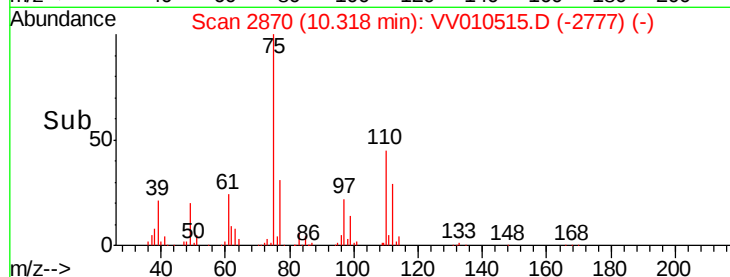
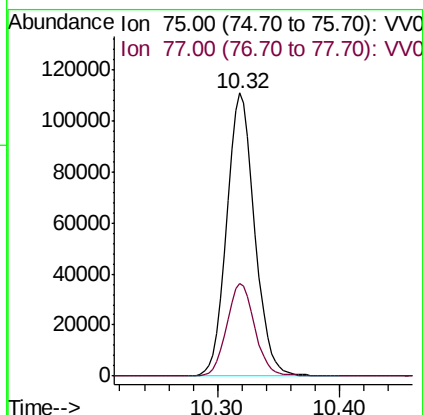
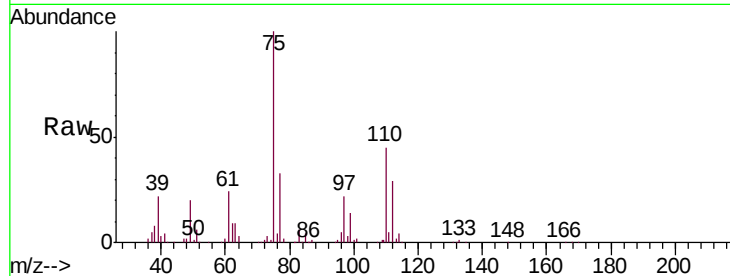




#59
 1,2,3-Trichloropropane
 Concen: 17.958 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VV010515.D
 Acq: 26 Apr 2019 20:48

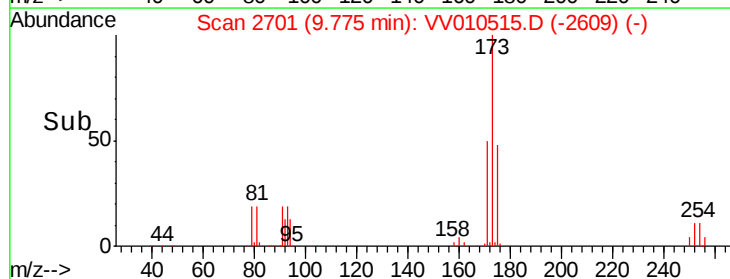
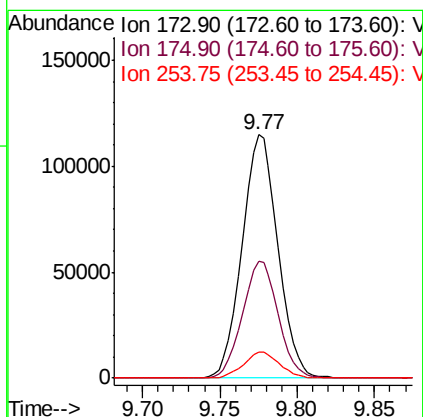
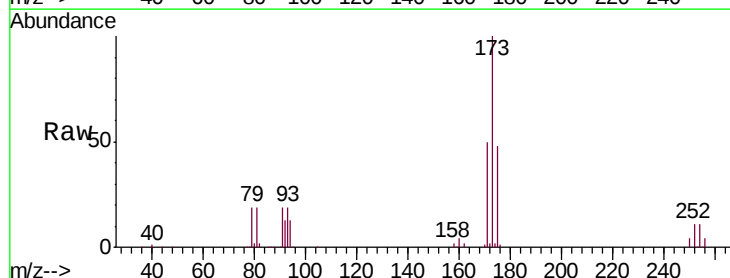
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02038

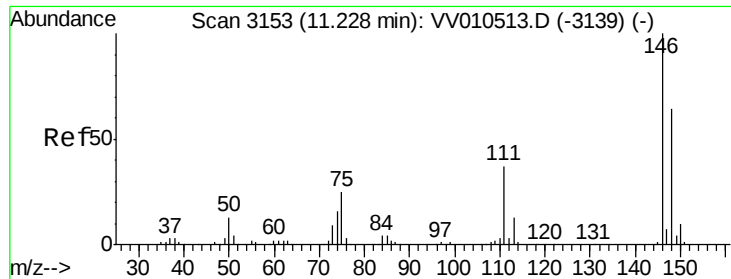
Tgt Ion: 75 Resp: 177394
 Ion Ratio Lower Upper
 75 100
 77 32.8 26.9 40.3



#61
 Bromoform
 Concen: 22.294 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. -0.00 min
 Lab File: VV010515.D
 Acq: 26 Apr 2019 20:48

Tgt Ion: 173 Resp: 184810
 Ion Ratio Lower Upper
 173 100
 175 47.8 39.1 58.7
 254 10.7 8.8 13.2





#62

1,3-Dichlorobenzene

Concen: 20.472 ug/L

RT: 11.22 min Scan# 3152

Delta R.T. -0.00 min

Lab File: VV010515.D

Acq: 26 Apr 2019 20:48

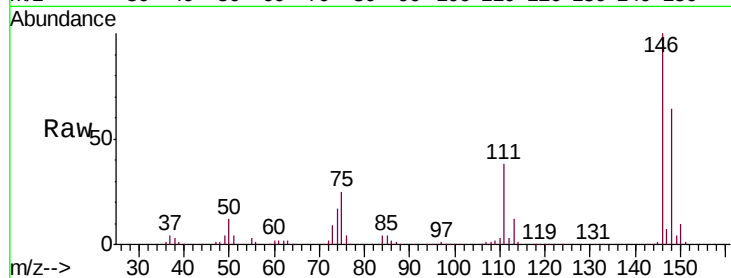
Instrument :

MSVOA_V

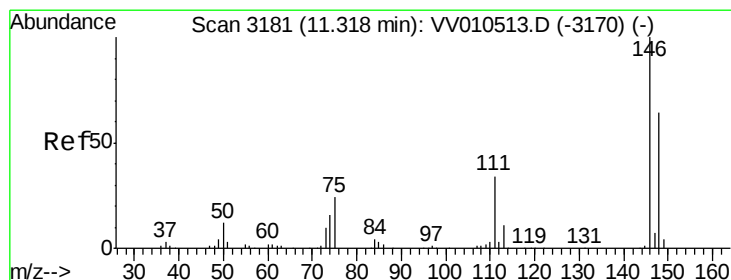
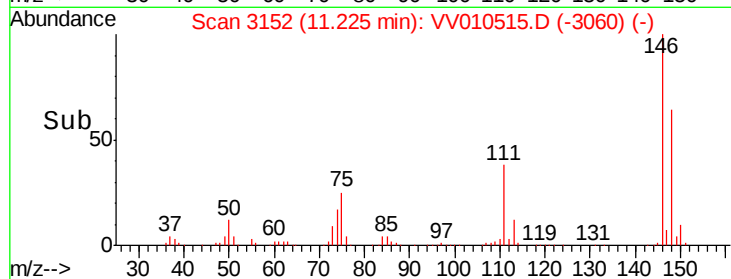
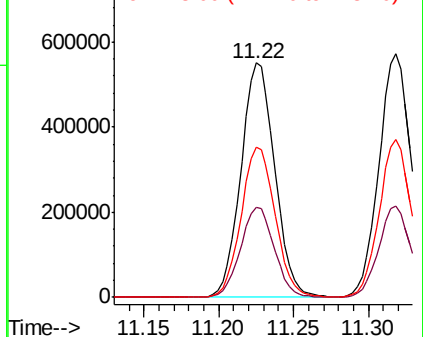
ClientSampleId :

VSTD02038

Tgt Ion:	146	Resp:	868695
Ion	Ratio	Lower	Upper
146	100		
111	38.5	26.0	48.4
148	64.2	44.9	83.5



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 20.406 ug/L

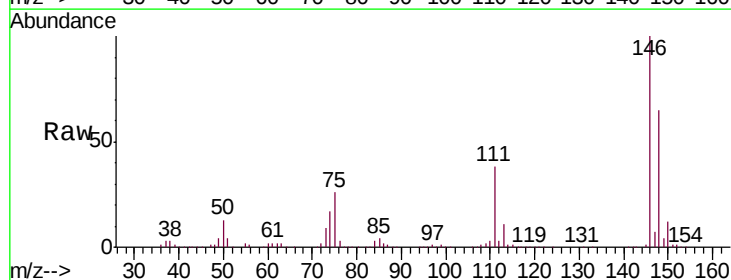
RT: 11.32 min Scan# 3181

Delta R.T. 0.00 min

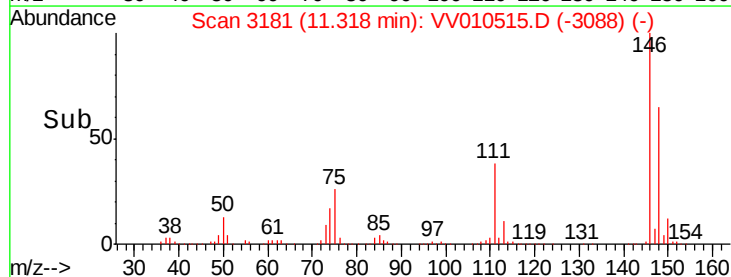
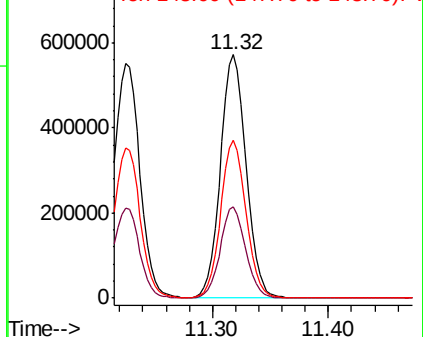
Lab File: VV010515.D

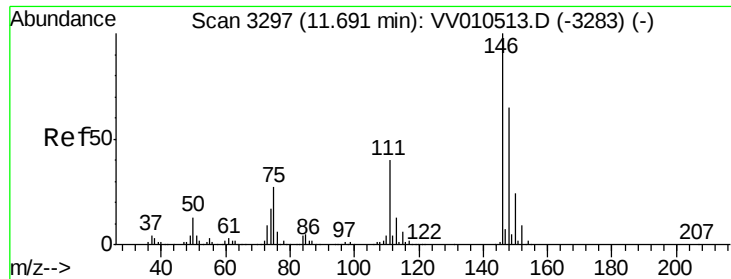
Acq: 26 Apr 2019 20:48

Tgt Ion:	146	Resp:	875325
Ion	Ratio	Lower	Upper
146	100		
111	37.5	24.3	45.1
148	64.7	44.9	83.3



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

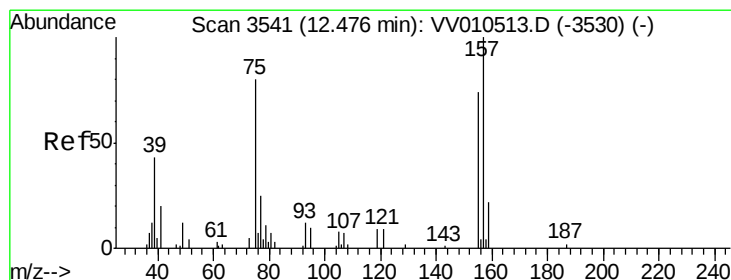
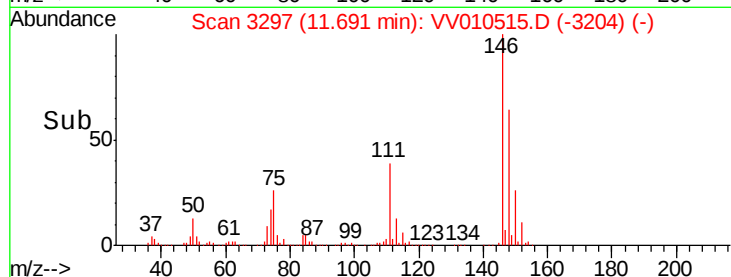
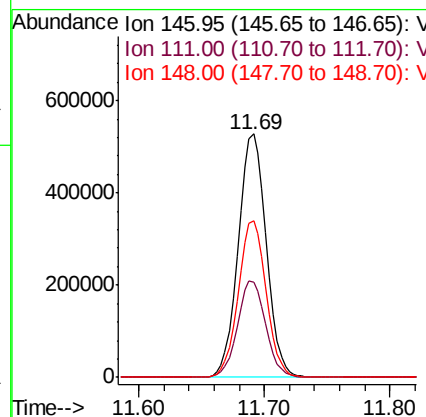
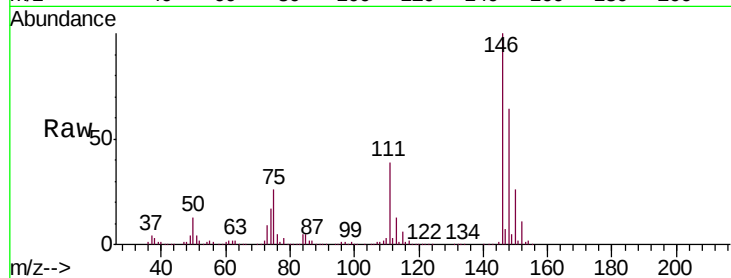




#65
 1,2-Dichlorobenzene
 Concen: 20.102 ug/L
 RT: 11.69 min Scan# 3297
 Delta R.T. 0.00 min
 Lab File: VV010515.D
 Acq: 26 Apr 2019 20:48

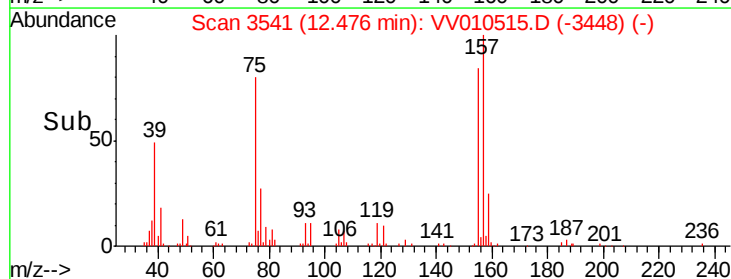
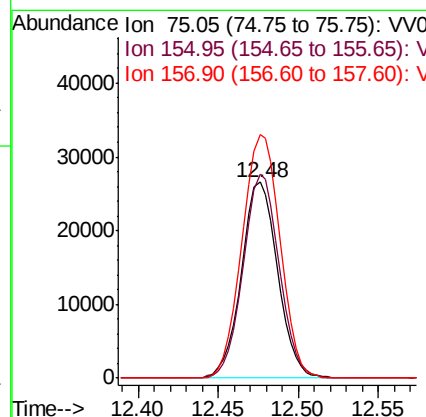
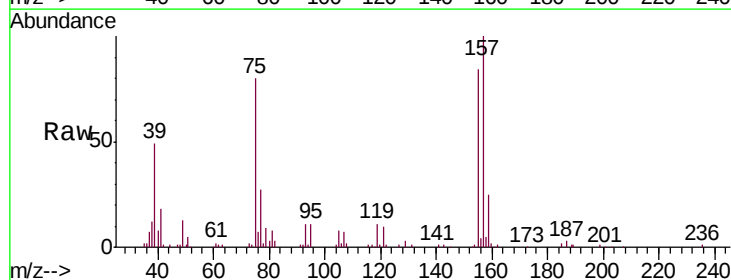
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02038

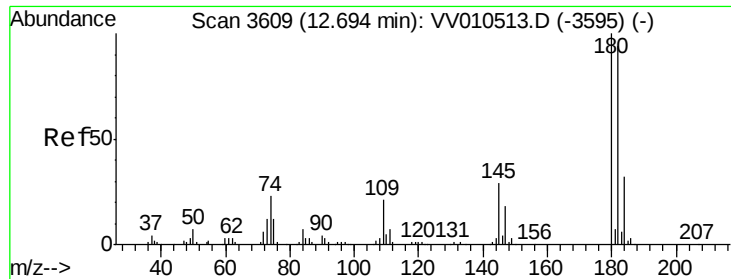
Tgt Ion: 146 Resp: 817273
 Ion Ratio Lower Upper
 146 100
 111 39.3 31.8 47.8
 148 64.4 51.9 77.9



#66
 1,2-Dibromo-3-chloropropane
 Concen: 18.106 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.00 min
 Lab File: VV010515.D
 Acq: 26 Apr 2019 20:48

Tgt Ion: 75 Resp: 40979
 Ion Ratio Lower Upper
 75 100
 155 104.3 73.4 110.0
 157 124.3 99.4 149.2

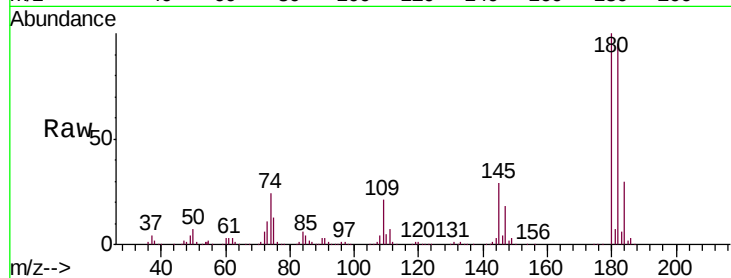




#67
 1,3,5-Trichlorobenzene
 Concen: 21.232 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV010515.D
 Acq: 26 Apr 2019 20:48

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02038

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	75.4	113.0
184	30.5	24.6	36.8
145	29.6	23.2	34.8



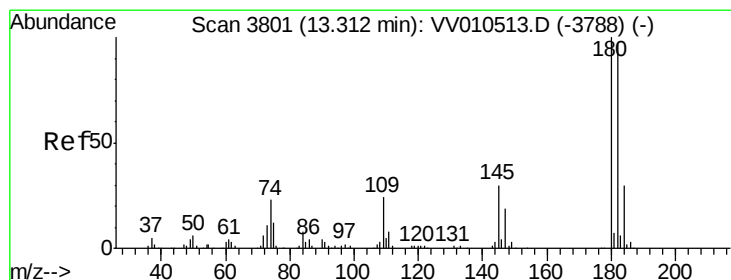
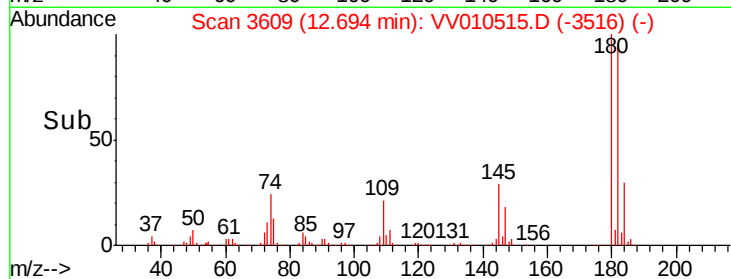
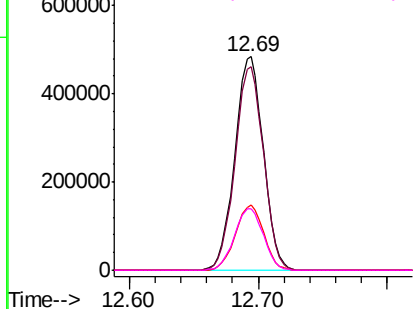
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

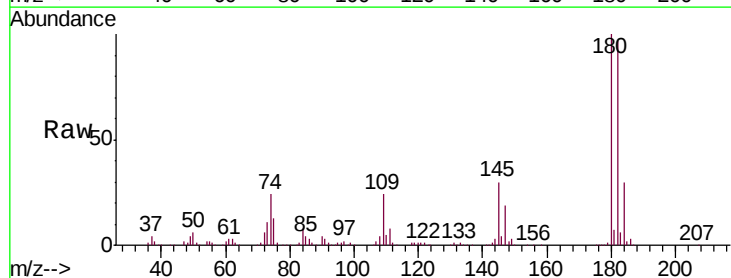
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 22.599 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV010515.D
 Acq: 26 Apr 2019 20:48

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.2	77.1	115.7
145	29.8	25.0	37.6

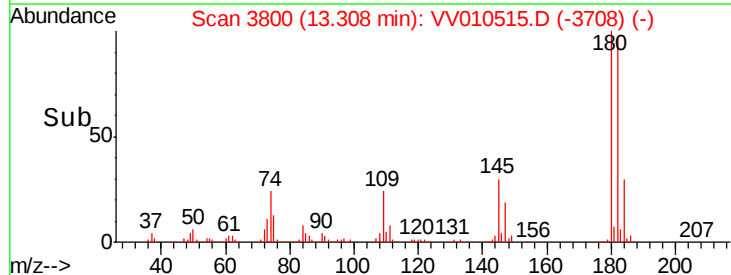
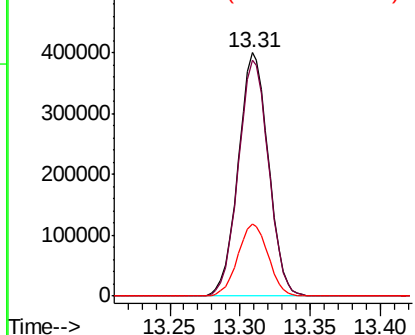


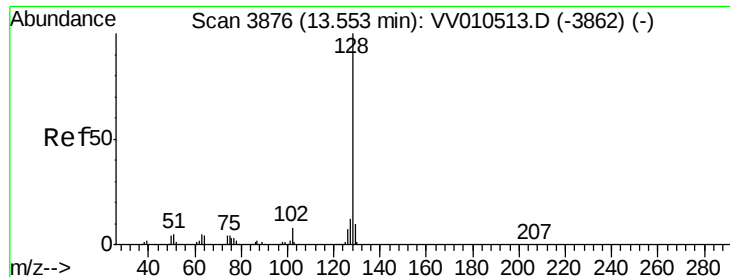
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 23.077 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV010515.D

Acq: 26 Apr 2019 20:48

Instrument :

MSVOA_V

ClientSampleId :

VSTD02038

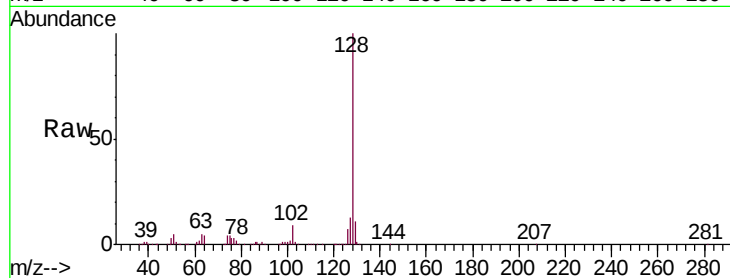
Tgt Ion:128 Resp: 920354

Ion Ratio Lower Upper

128 100

129 10.9 8.4 12.6

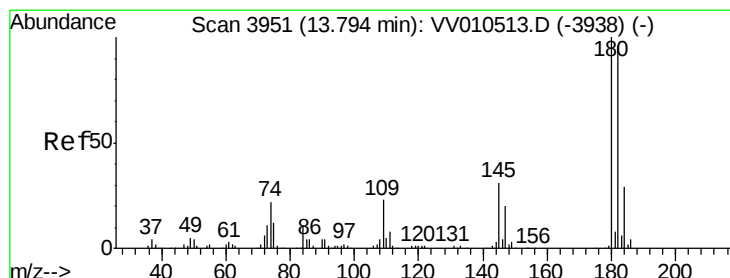
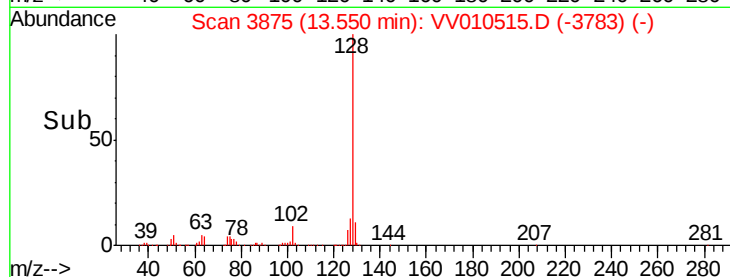
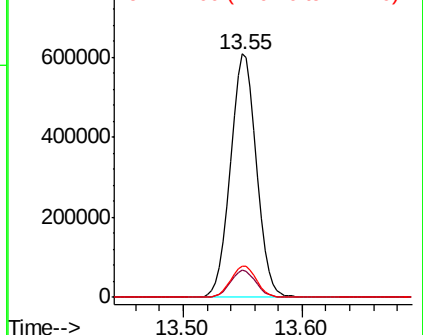
127 12.9 10.0 15.0



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: 21.884 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV010515.D

Acq: 26 Apr 2019 20:48

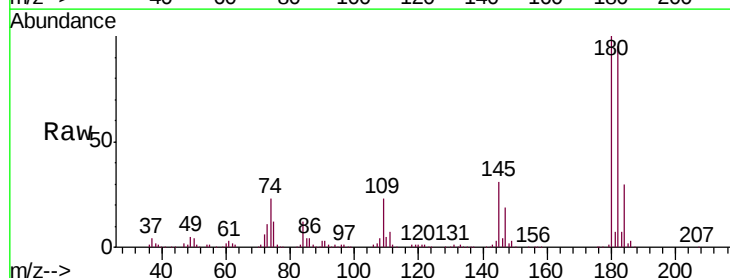
Tgt Ion:180 Resp: 561566

Ion Ratio Lower Upper

180 100

182 95.3 76.0 114.0

145 31.2 24.8 37.2



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

