

Data File : VV011115.D
Acq On : 29 May 2019 20:00
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02578

Quant Time: May 30 03:57:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
Quant Title : VOC Analysis
QLast Update : Thu May 30 03:51:47 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	355237	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	344225	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	165311	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	105287	21.62	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.48%
7) Chloroethane-d5	1.56	69	81924	23.57	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.28%
10) 1,1-Dichloroethene-d2	2.12	63	223004	24.61	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	98.44%
20) 2-Butanone-d5	3.94	46	102244	60.91	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	121.82%
24) Chloroform-d	4.40	84	217798	25.28	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	101.12%
26) 1,2-Dichloroethane-d4	5.08	65	140170	25.45	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	101.80%
29) Benzene-d6	5.09	84	455683	22.61	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	90.44%
33) 1,2-Dichloropropane-d6	6.11	67	147442	22.99	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	91.96%
37) Toluene-d8	7.36	98	420696	22.64	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	90.56%
38) trans-1,3-Dichloropropene-	7.66	79	68693	22.99	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	91.96%
39) 2-Hexanone-d5	8.13	63	72914	52.19	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	104.38%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	145738	26.43	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	105.72%
61) 1,2-Dichlorobenzene-d4	11.67	152	156277	23.91	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	95.64%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	134443	23.209	ug/L	100
3) Chloromethane	1.25	50	133332	23.335	ug/L	99
5) Vinyl chloride	1.32	62	131755	24.985	ug/L	99
6) Bromomethane	1.51	94	71426	31.428	ug/L	100
8) Chloroethane	1.58	64	77431	27.068	ug/L	99
9) Trichlorofluoromethane	1.76	101	188392	26.672	ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	95739	25.259	ug/L	98
12) 1,1-Dichloroethene	2.13	96	90793	25.457	ug/L	93
13) Acetone	2.19	43	108668	57.144	ug/L	97
14) Carbon disulfide	2.31	76	297144	24.906	ug/L	100
15) Methyl Acetate	2.45	43	78160	28.476	ug/L #	100
16) Methylene chloride	2.53	84	125771	24.217	ug/L	97
17) Methyl tert-butyl Ether	2.80	73	348342	26.074	ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	115617	23.699	ug/L	99
19) 1,1-Dichloroethane	3.22	63	225560	23.782	ug/L	99
21) 2-Butanone	4.02	43	130468	55.711	ug/L	94
22) cis-1,2-Dichloroethene	3.96	96	134044	24.394	ug/L	98

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Quant Title : VOC Analysis
QLast Update : Thu May 30 03:51:47 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	59566	25.590	ug/L	95
25) Chloroform	4.42	83	233690	23.332	ug/L	100
27) 1,2-Dichloroethane	5.18	62	174544	26.748	ug/L	99
30) Cyclohexane	4.72	56	207606	20.822	ug/L	97
31) 1,1,1-Trichloroethane	4.65	97	186005	23.733	ug/L	99
32) Carbon tetrachloride	4.87	117	152628	22.737	ug/L	99
34) Benzene	5.14	78	491828	23.628	ug/L	100
35) Trichloroethene	5.96	95	127175	23.393	ug/L	99
36) Methylcyclohexane	6.17	83	205432	21.900	ug/L	97
40) 1,2-Dichloropropane	6.22	63	136243	24.560	ug/L	100
41) Bromodichloromethane	6.55	83	174609	24.828	ug/L	100
42) cis-1,3-Dichloropropene	7.07	75	216673	24.447	ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	259340	53.308	ug/L	100
44) Toluene	7.43	91	536189	23.692	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	184576	24.405	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	106954	26.014	ug/L	98
47) Tetrachloroethene	8.02	164	91200	23.261	ug/L	98
49) 2-Hexanone	8.18	43	192308	53.600	ug/L	97
50) Dibromochloromethane	8.29	129	121011	25.403	ug/L	98
51) 1,2-Dibromoethane	8.40	107	104434	26.544	ug/L	100
52) Chlorobenzene	8.92	112	346544	24.708	ug/L	99
53) Ethylbenzene	9.05	91	610463	23.661	ug/L	99
54) m,p-Xylene	9.18	106	226280	23.545	ug/L	99
55) o-xylene	9.59	106	225517	24.149	ug/L	97
56) Styrene	9.60	104	394303	24.902	ug/L	96
57) Isopropylbenzene	9.97	105	586596	23.536	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	149217	27.550	ug/L	100
59) 1,2,3-Trichloropropane	10.32	75	117103	28.291	ug/L	100
62) Bromoform	9.77	173	69264	24.907	ug/L	99
63) 1,3-Dichlorobenzene	11.23	146	263251	24.206	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	264166	24.409	ug/L	100
65) 1,2-Dichlorobenzene	11.69	146	252314	24.828	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.48	75	26338	25.389	ug/L	99
67) 1,3,5-Trichlorobenzene	12.69	180	192459	24.062	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	161101	25.317	ug/L	100
69) Naphthalene	13.55	128	375112	28.577	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	152811	26.243	ug/L	100

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

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MSVOA_V
ClientSampleId :
VSTD02578

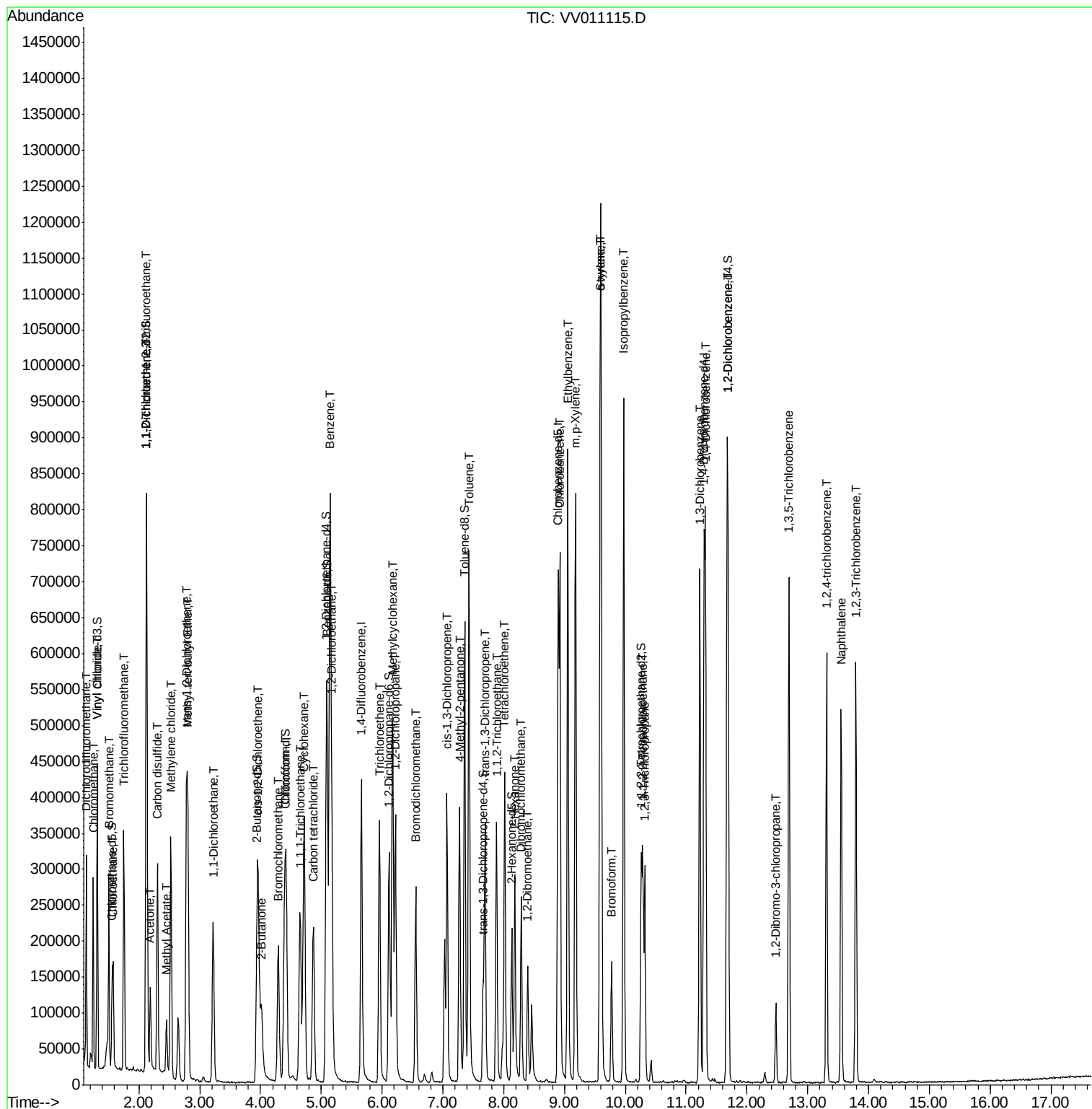
Quant Time: May 30 03:57:18 2019

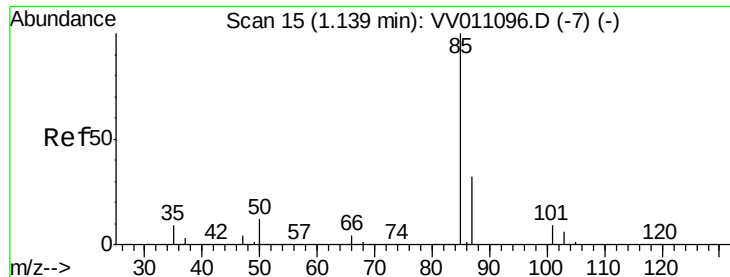
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM052819S.M

Quant Title : VOC Analysis

QLast Update : Thu May 30 03:51:47 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 23.209 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

Instrument :

MSVOA_V

ClientSampleId :

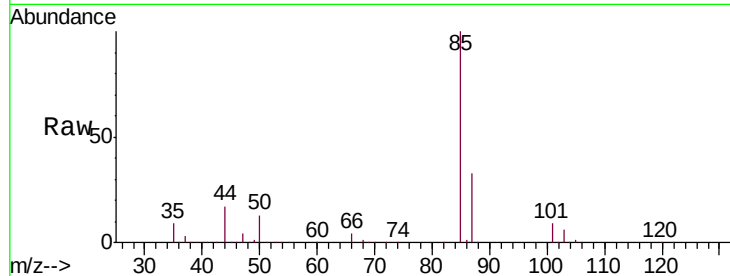
VSTD02578

Tgt Ion: 85 Resp: 134443

Ion Ratio Lower Upper

85 100

87 32.5 22.5 41.9



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

1.14

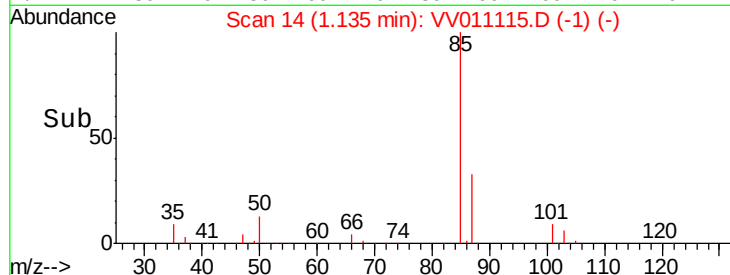
150000

100000

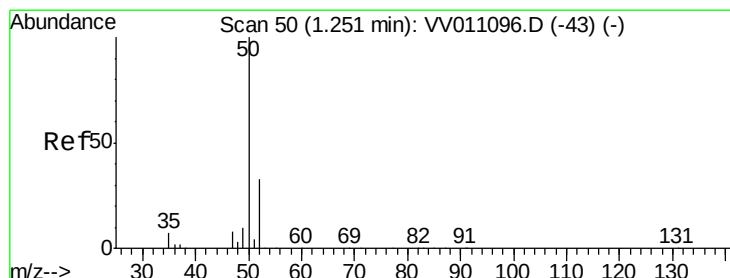
50000

0

Time-->



Time-->



#3

Chloromethane

Concen: 23.335 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV011115.D

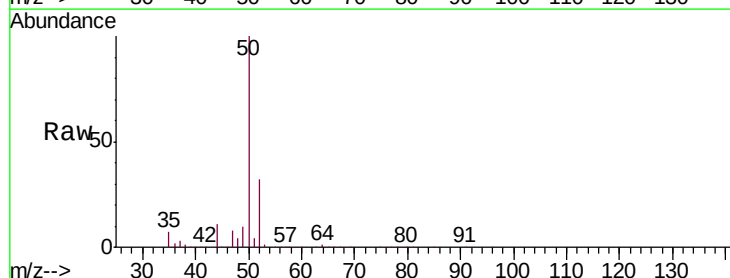
Acq: 29 May 2019 20:00

Tgt Ion: 50 Resp: 133332

Ion Ratio Lower Upper

50 100

52 32.0 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0

1.25

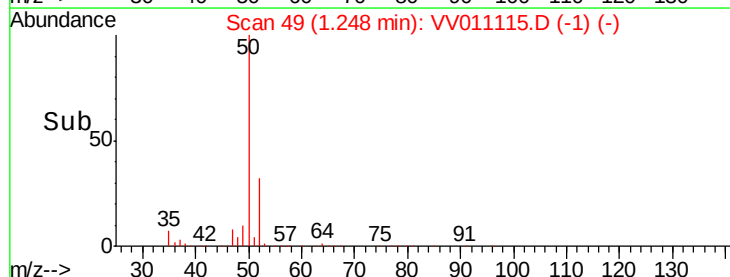
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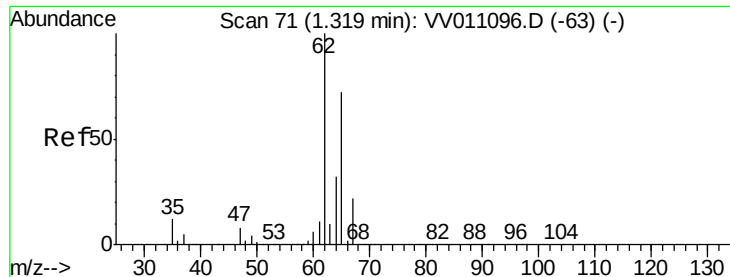
50000

0

Time-->



Time-->



#5

Vinyl chloride

Concen: 24.985 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

Instrument :

MSVOA_V

ClientSampleId :

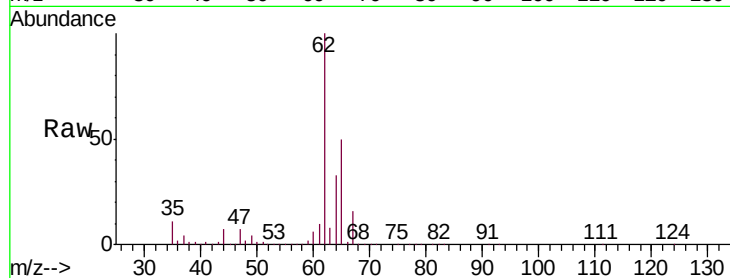
VSTD02578

Tgt Ion: 62 Resp: 131755

Ion Ratio Lower Upper

62 100

64 33.2 23.4 43.6



Abundance Ion 62.00 (61.70 to 62.70): VV011115.D (-63) (-)

Ion 64.00 (63.70 to 64.70): VV011115.D (-63) (-)

1.32

150000

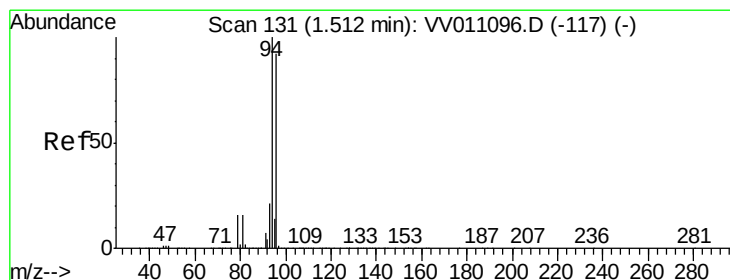
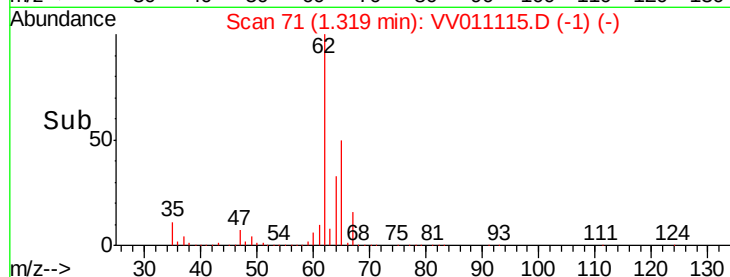
100000

50000

0

1.30 1.35

Time-->



#6

Bromomethane

Concen: 31.428 ug/L

RT: 1.51 min Scan# 130

Delta R.T. -0.00 min

Lab File: VV011115.D

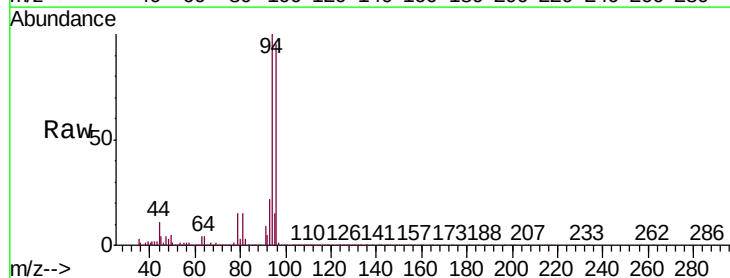
Acq: 29 May 2019 20:00

Tgt Ion: 94 Resp: 71426

Ion Ratio Lower Upper

94 100

96 94.6 9.5 179.7



Abundance Ion 94.00 (93.70 to 94.70): VV011115.D (-117) (-)

Ion 96.00 (95.70 to 96.70): VV011115.D (-117) (-)

1.51

80000

60000

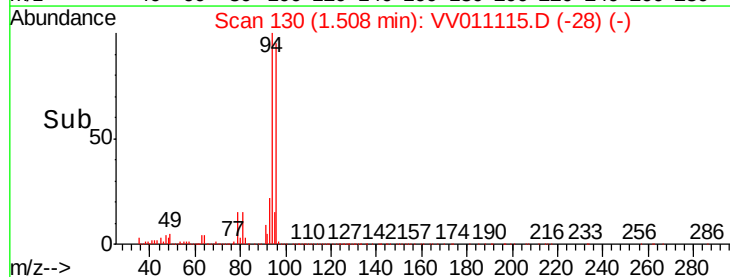
40000

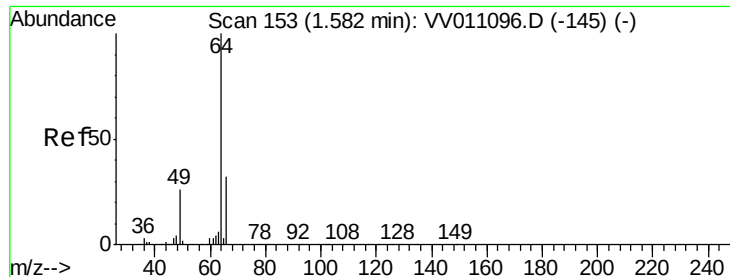
20000

0

1.50 1.55

Time-->





#8

Chloroethane

Concen: 27.068 ug/L

RT: 1.58 min Scan# 152

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

Instrument :

MSVOA_V

ClientSampleId :

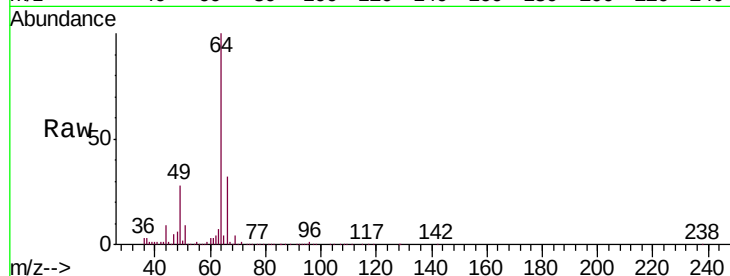
VSTD02578

Tgt Ion: 64 Resp: 77431

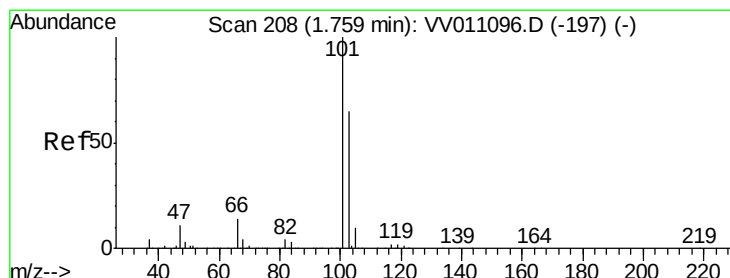
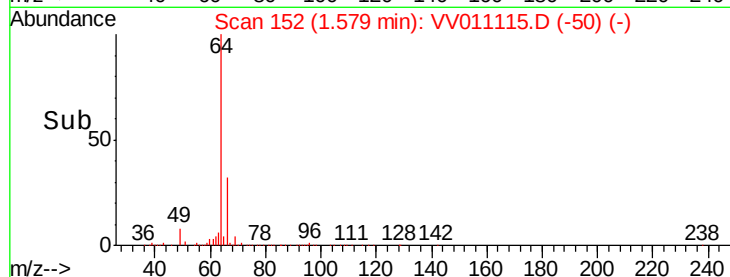
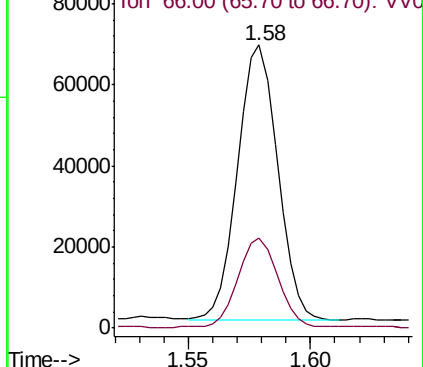
Ion Ratio Lower Upper

64 100

66 31.7 21.7 40.3



Abundance Ion 64.00 (63.70 to 64.70): VV011115.D (-150) (-)



#9

Trichlorofluoromethane

Concen: 26.672 ug/L

RT: 1.76 min Scan# 207

Delta R.T. -0.00 min

Lab File: VV011115.D

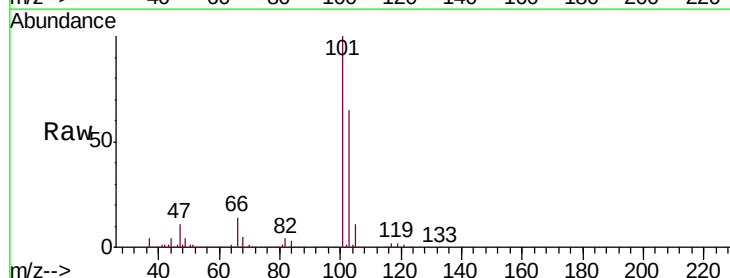
Acq: 29 May 2019 20:00

Tgt Ion: 101 Resp: 188392

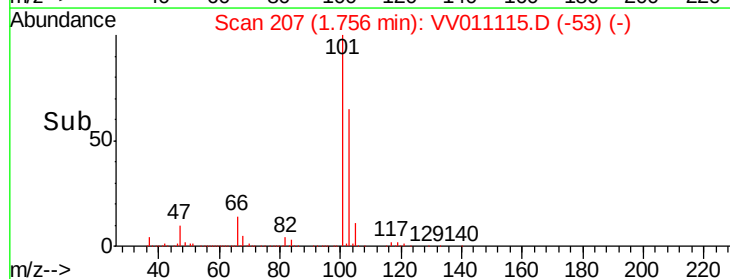
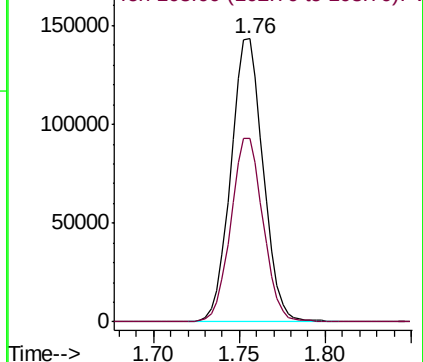
Ion Ratio Lower Upper

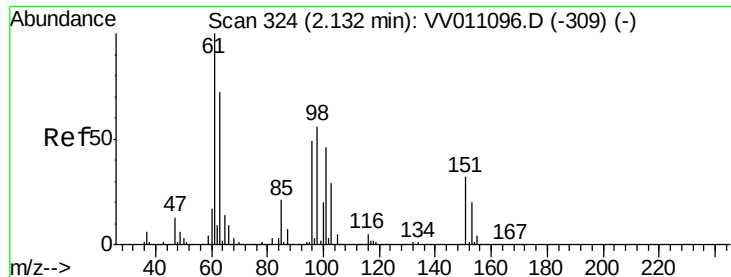
101 100

103 65.0 44.4 82.4



Abundance Ion 101.00 (100.70 to 101.70): VV011115.D (-53) (-)





#11

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

Concen: 25.259 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD02578

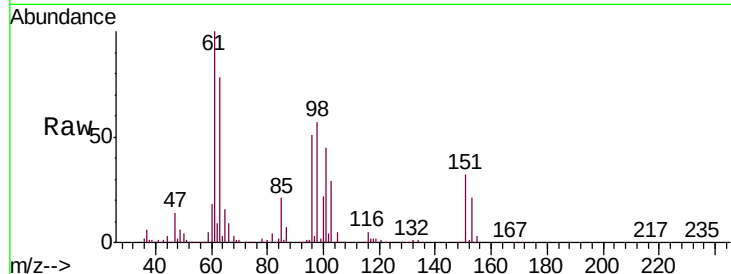
Tgt Ion: 101 Resp: 95739

Ion Ratio Lower Upper

101 100

85 47.4 36.1 54.1

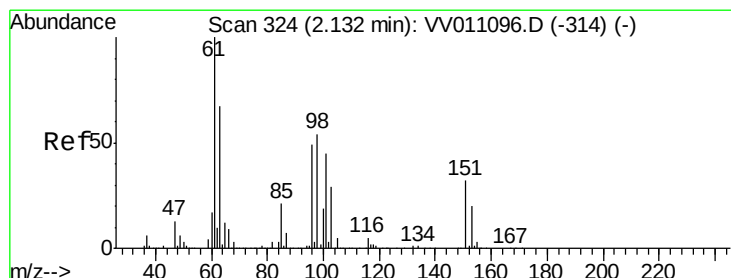
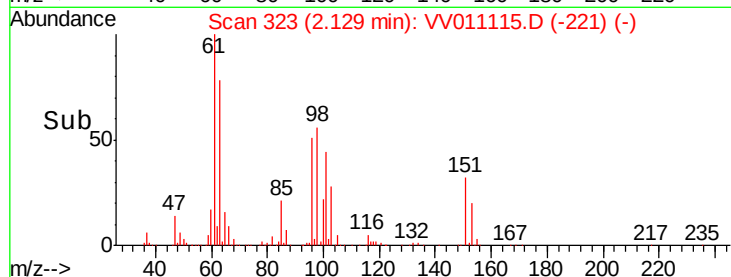
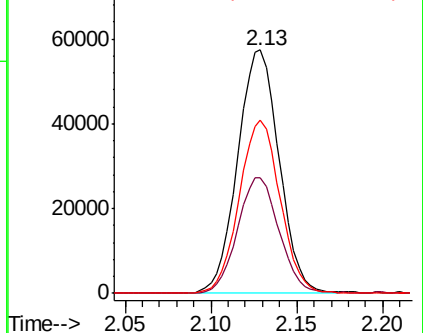
151 70.6 56.6 85.0



Abundance Ion 101.00 (100.70 to 101.70): VV011115.D (-221) (-)

Ion 85.00 (84.70 to 85.70): VV011115.D (-221) (-)

Ion 151.00 (150.70 to 151.70): VV011115.D (-221) (-)



#12

1,1-Dichloroethene

Concen: 25.457 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

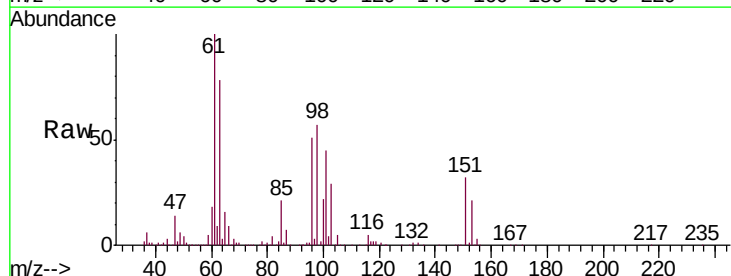
Tgt Ion: 96 Resp: 90793

Ion Ratio Lower Upper

96 100

61 196.8 134.1 249.1

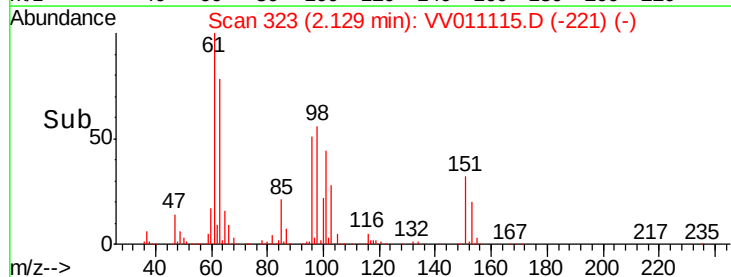
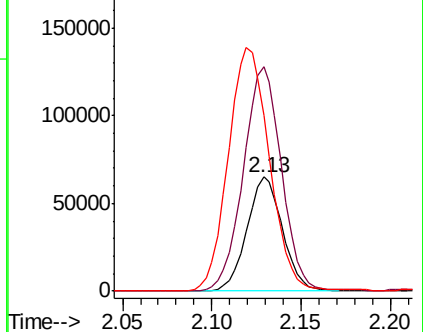
63 154.4 98.1 182.3

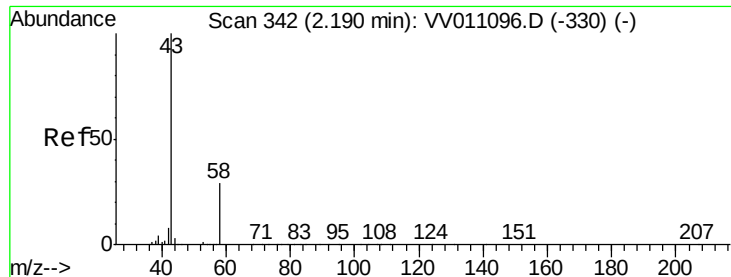


Abundance Ion 96.00 (95.70 to 96.70): VV011115.D (-221) (-)

Ion 61.00 (60.70 to 61.70): VV011115.D (-221) (-)

Ion 63.00 (62.70 to 63.70): VV011115.D (-221) (-)





#13

Acetone

Concen: 57.144 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

Instrument :

MSVOA_V

ClientSampleId :

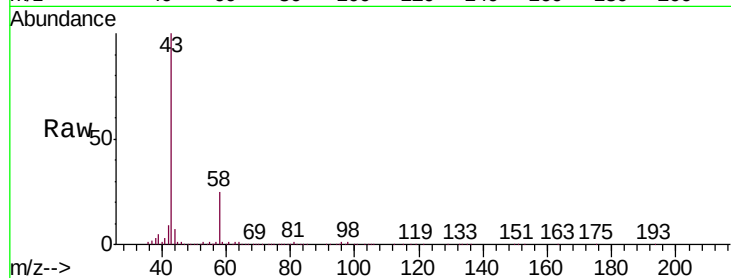
VSTD02578

Tgt Ion: 43 Resp: 108668

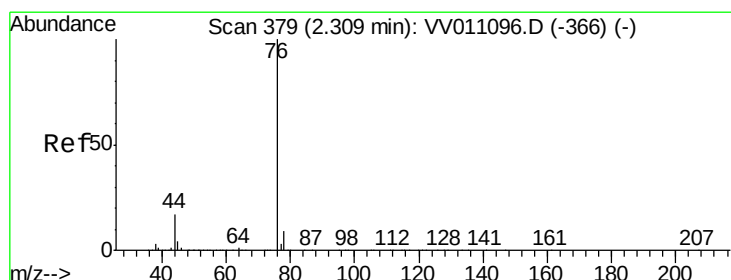
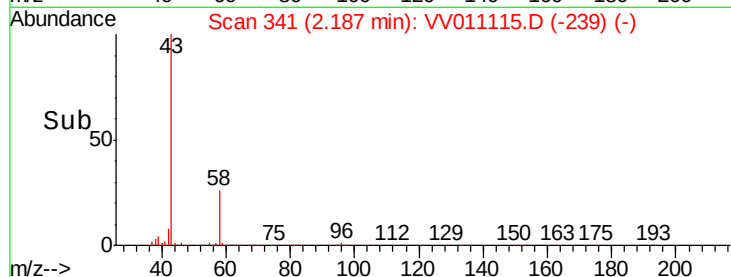
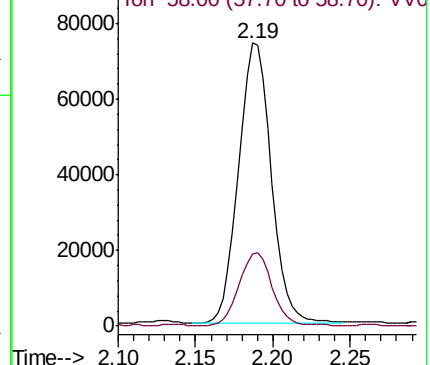
Ion Ratio Lower Upper

43 100

58 26.0 0.0 54.8



Abundance Ion 43.00 (42.70 to 43.70): VV011096.D (-330) (-)



#14

Carbon disulfide

Concen: 24.906 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VV011115.D

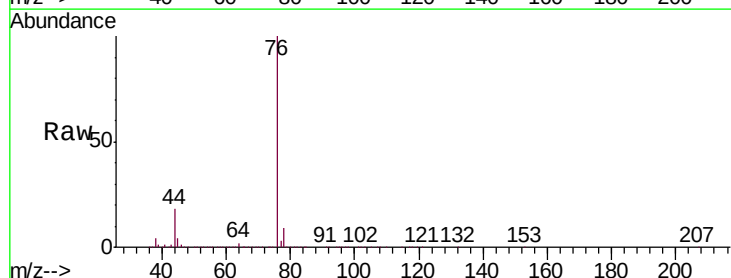
Acq: 29 May 2019 20:00

Tgt Ion: 76 Resp: 297144

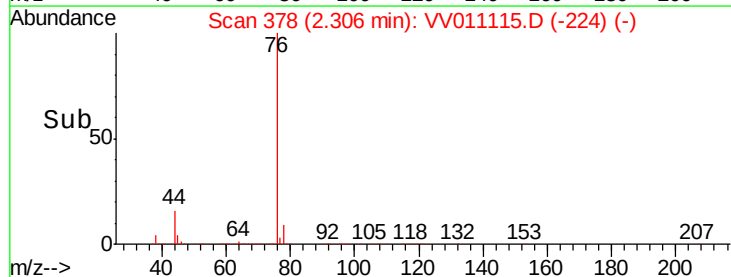
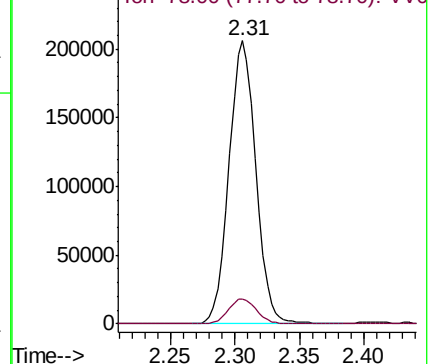
Ion Ratio Lower Upper

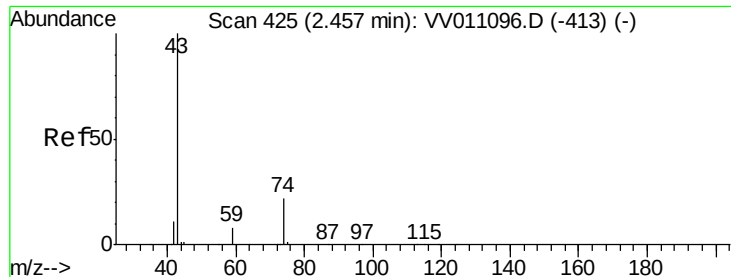
76 100

78 9.0 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV011096.D (-366) (-)





#15

Methyl Acetate

Concen: 28.476 ug/L

RT: 2.45 min Scan# 424

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

Instrument :

MSVOA_V

ClientSampleId :

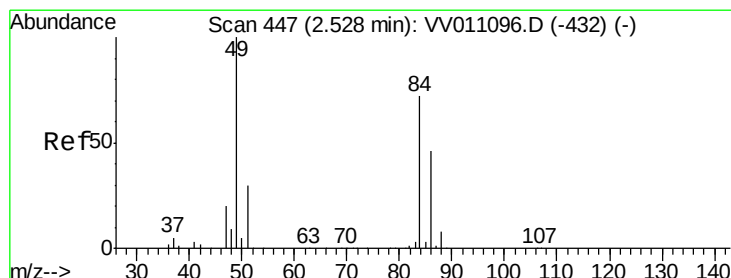
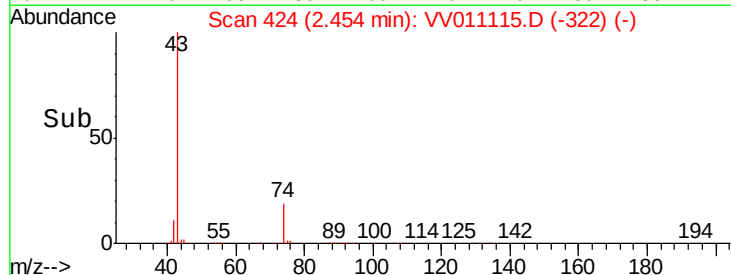
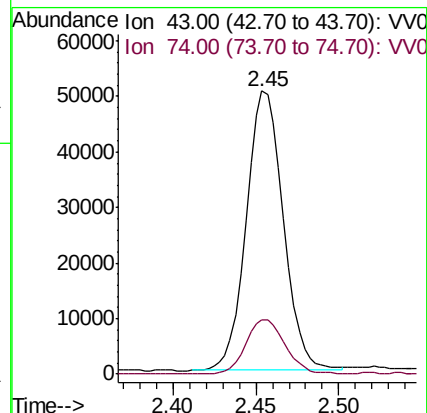
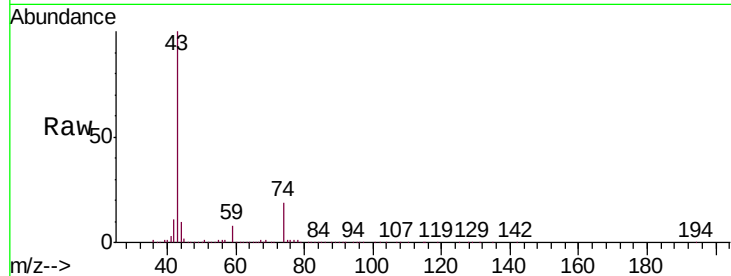
VSTD02578

Tgt Ion: 43 Resp: 78160

Ion Ratio Lower Upper

43 100

74 20.9 0.0 0.0#



#16

Methylene chloride

Concen: 24.217 ug/L

RT: 2.53 min Scan# 447

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

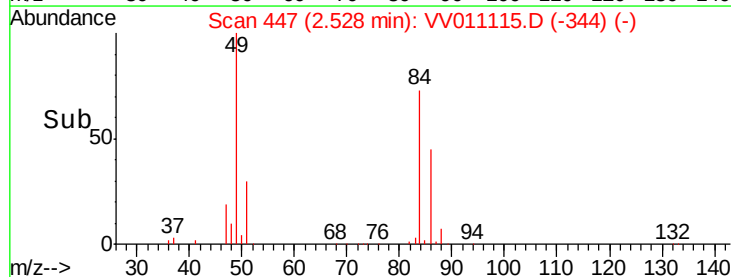
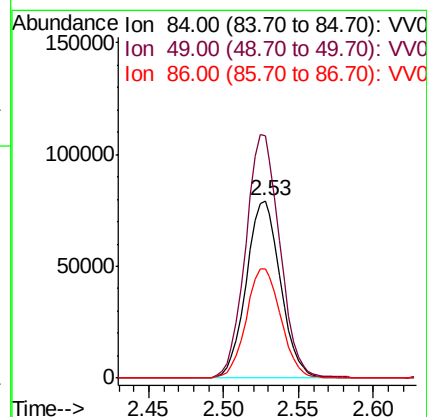
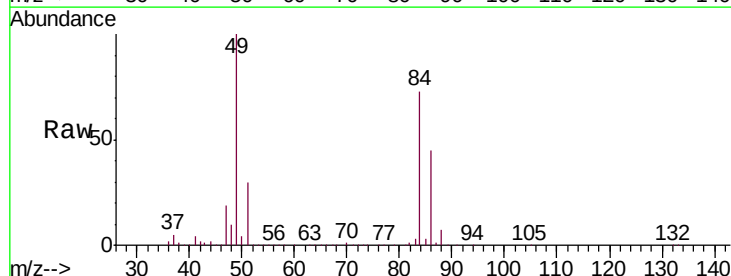
Tgt Ion: 84 Resp: 125771

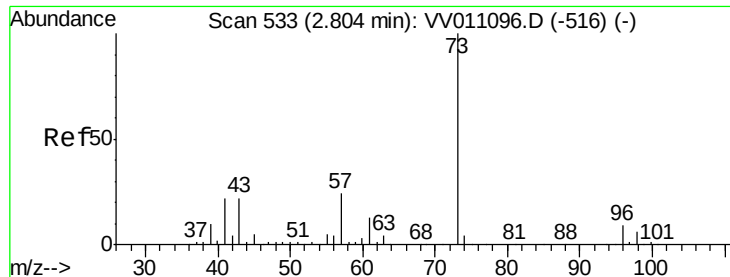
Ion Ratio Lower Upper

84 100

49 136.2 98.0 182.0

86 61.7 45.4 84.4

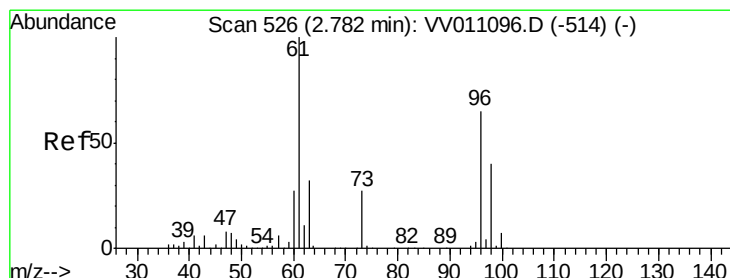
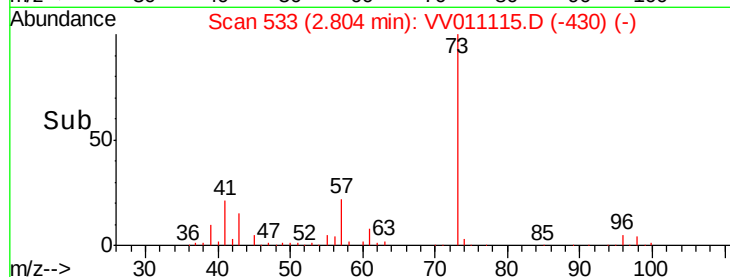
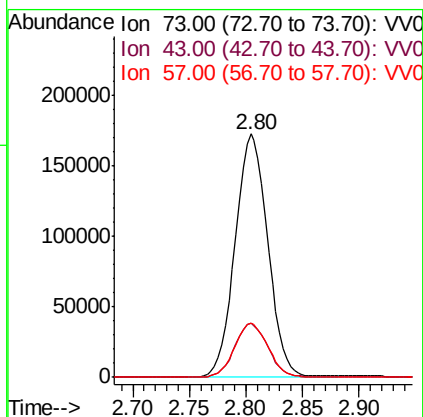
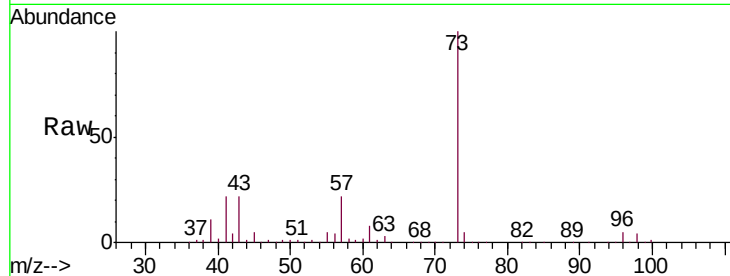




#17
Methyl tert-butyl Ether
Concen: 26.074 ug/L
RT: 2.80 min Scan# 533
Delta R.T. -0.00 min
Lab File: VV011115.D
Acq: 29 May 2019 20:00

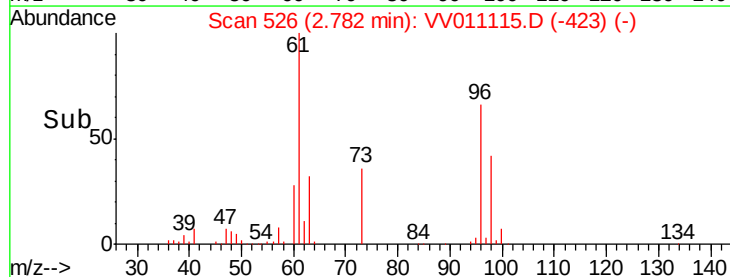
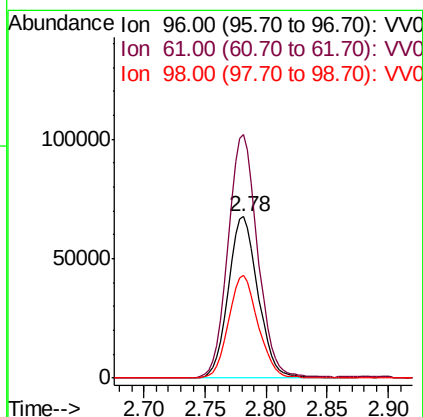
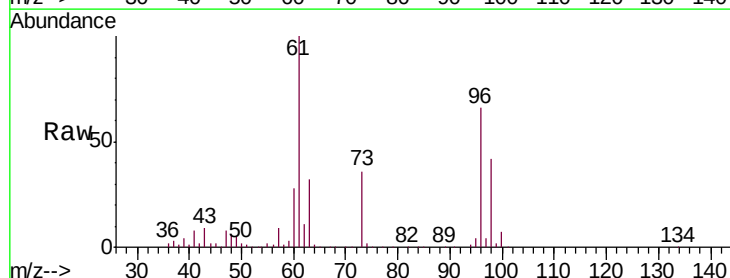
Instrument :
MSVOA_V
ClientSampleId :
VSTD02578

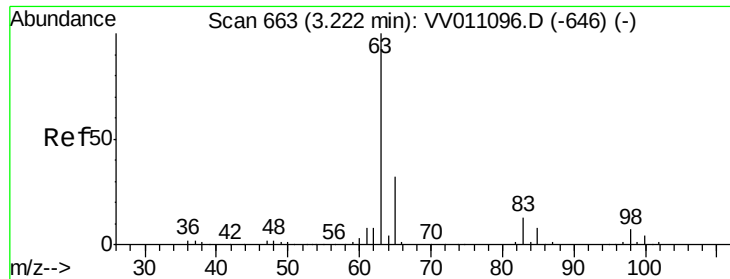
Tgt Ion: 73 Resp: 348342
Ion Ratio Lower Upper
73 100
43 22.4 17.2 25.8
57 22.8 18.5 27.7



#18
trans-1,2-Dichloroethene
Concen: 23.699 ug/L
RT: 2.78 min Scan# 526
Delta R.T. -0.00 min
Lab File: VV011115.D
Acq: 29 May 2019 20:00

Tgt Ion: 96 Resp: 115617
Ion Ratio Lower Upper
96 100
61 150.7 106.5 197.9
98 63.5 44.0 81.8

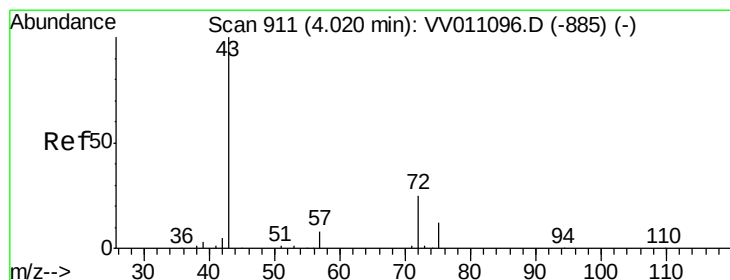
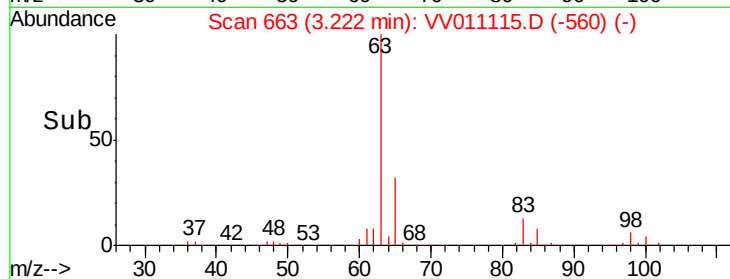
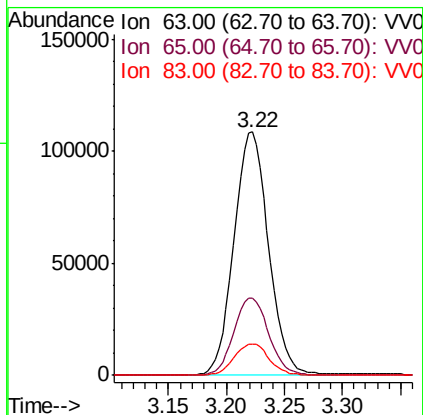
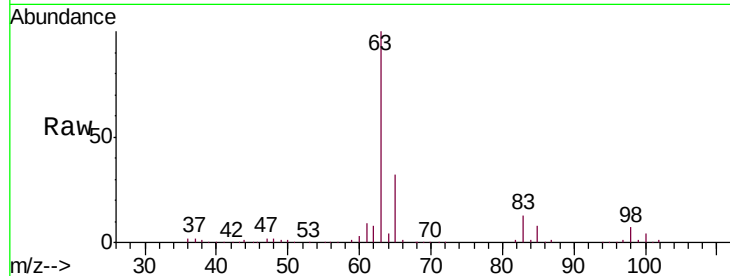




#19
 1,1-Dichloroethane
 Concen: 23.782 ug/L
 RT: 3.22 min Scan# 663
 Delta R.T. -0.00 min
 Lab File: VV011115.D
 Acq: 29 May 2019 20:00

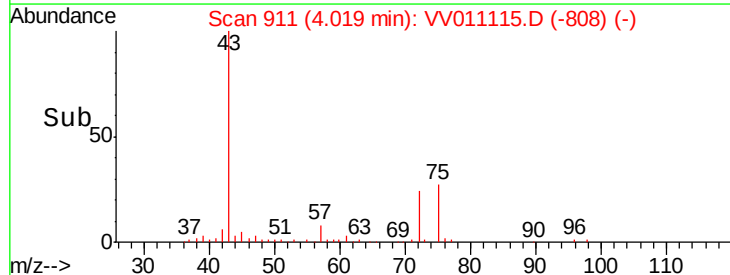
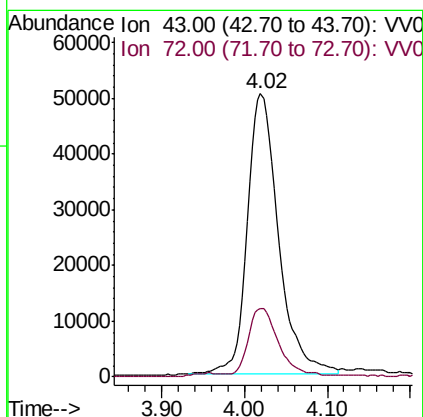
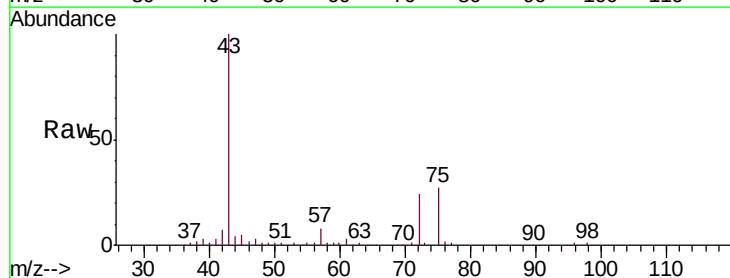
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02578

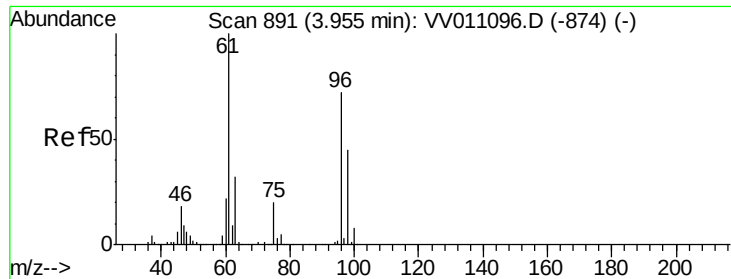
Tgt Ion: 63 Resp: 225560
 Ion Ratio Lower Upper
 63 100
 65 31.5 22.4 41.6
 83 13.0 9.2 17.2



#21
 2-Butanone
 Concen: 55.711 ug/L
 RT: 4.02 min Scan# 911
 Delta R.T. -0.00 min
 Lab File: VV011115.D
 Acq: 29 May 2019 20:00

Tgt Ion: 43 Resp: 130468
 Ion Ratio Lower Upper
 43 100
 72 24.3 10.7 31.9



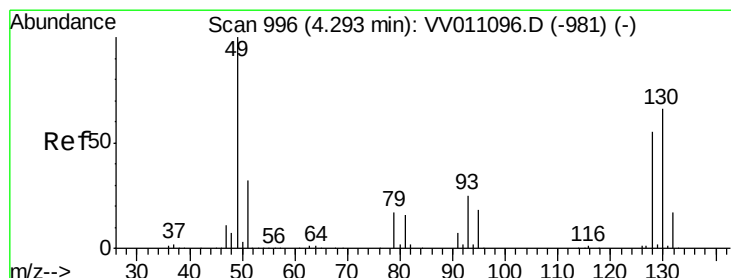
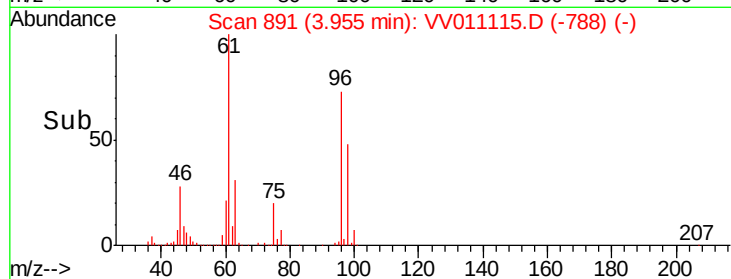
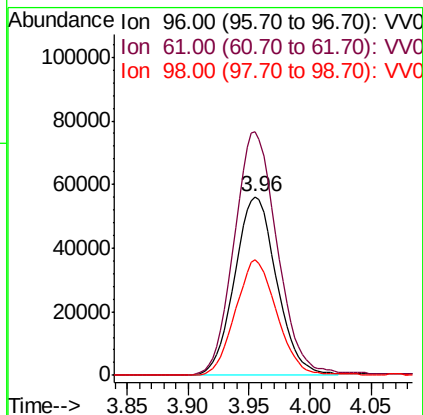
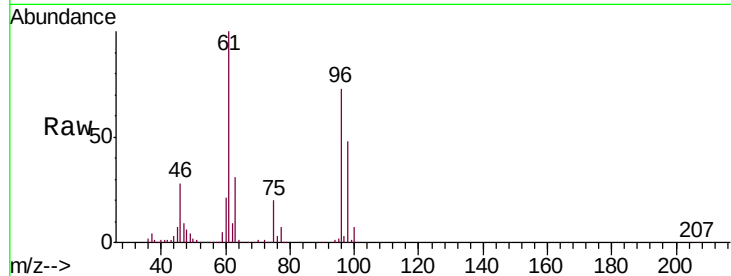


#22

cis-1,2-Dichloroethene
Concen: 24.394 ug/L
RT: 3.96 min Scan# 891
Delta R.T. -0.00 min
Lab File: VV011115.D
Acq: 29 May 2019 20:00

Instrument :
MSVOA_V
ClientSampled :
VSTD02578

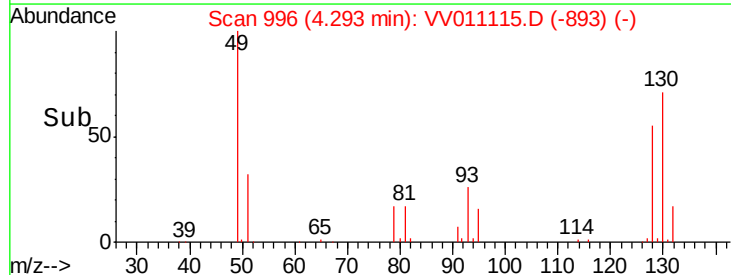
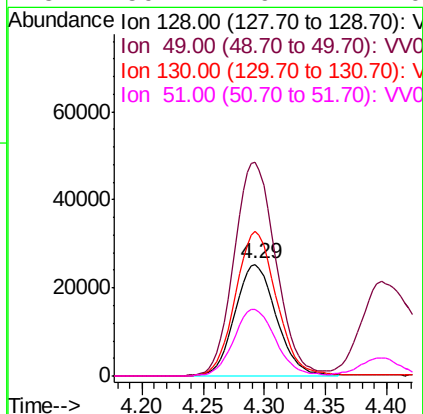
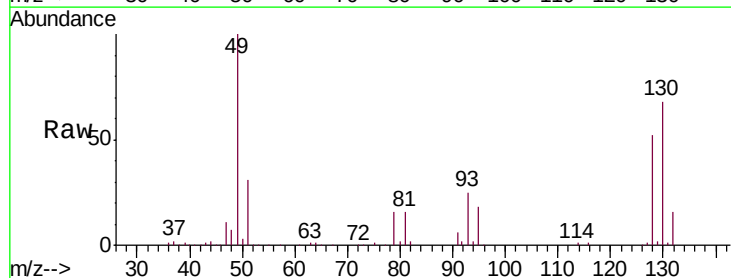
Tgt Ion: 96 Resp: 134044
Ion Ratio Lower Upper
96 100
61 136.2 97.4 180.8
98 65.0 44.4 82.5

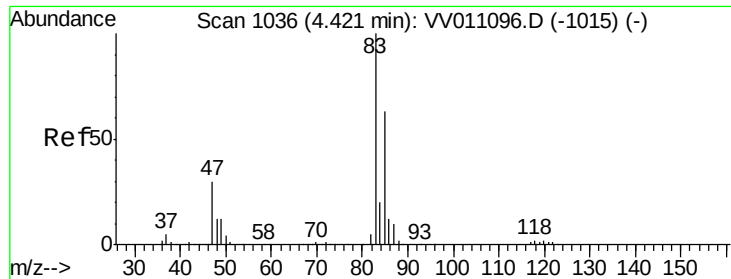


#23

Bromochloromethane
Concen: 25.590 ug/L
RT: 4.29 min Scan# 996
Delta R.T. -0.00 min
Lab File: VV011115.D
Acq: 29 May 2019 20:00

Tgt Ion: 128 Resp: 59566
Ion Ratio Lower Upper
128 100
49 191.2 140.6 261.0
130 129.1 87.2 162.0
51 59.4 49.4 74.0





#25

Chloroform

Concen: 23.332 ug/L

RT: 4.42 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

Instrument :

MSVOA_V

ClientSampled :

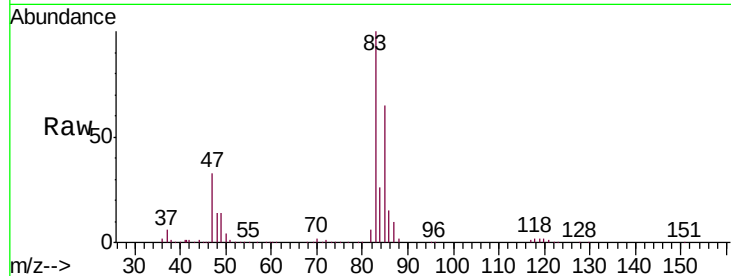
VSTD02578

Tgt Ion: 83 Resp: 233690

Ion Ratio Lower Upper

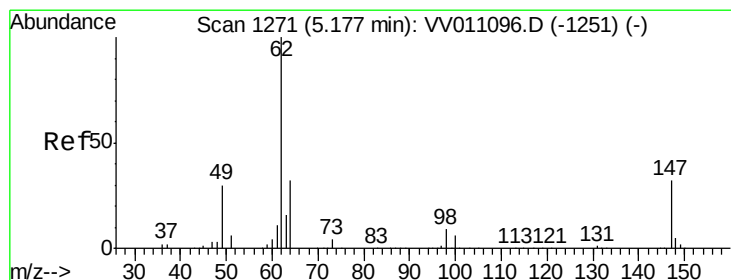
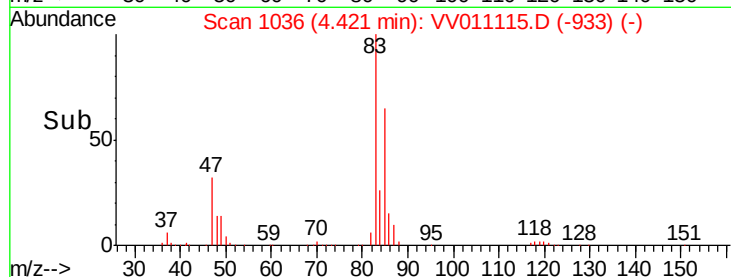
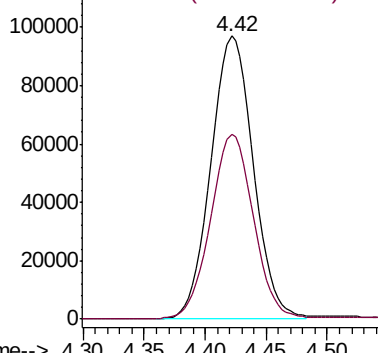
83 100

85 66.2 46.2 85.8



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#27

1,2-Dichloroethane

Concen: 26.748 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VV011115.D

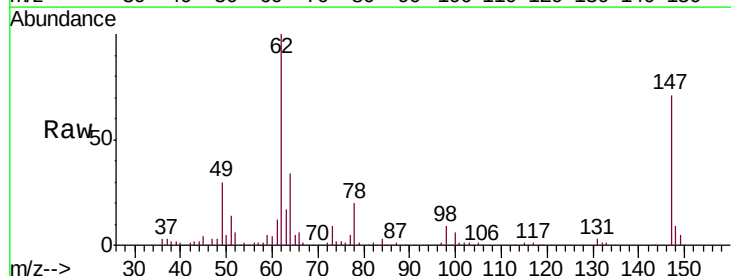
Acq: 29 May 2019 20:00

Tgt Ion: 62 Resp: 174544

Ion Ratio Lower Upper

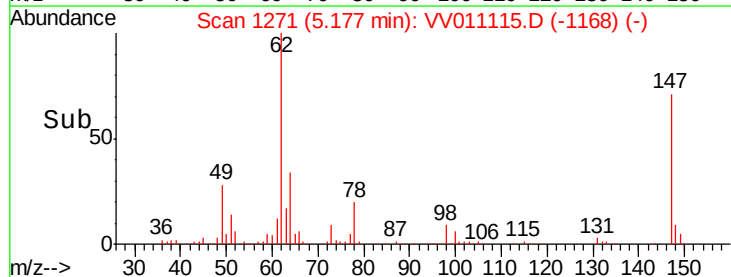
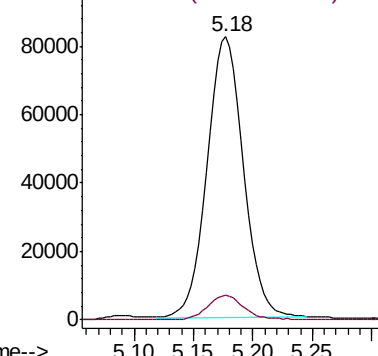
62 100

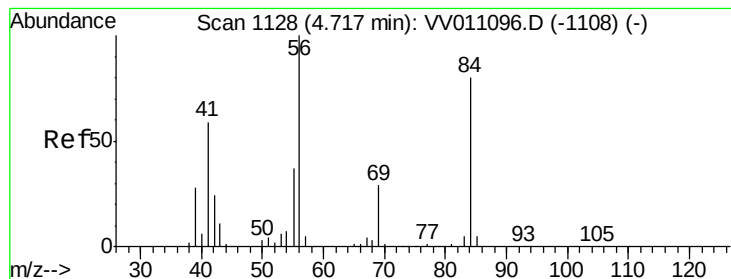
98 8.7 7.4 11.0



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#30

Cyclohexane

Concen: 20.822 ug/L

RT: 4.72 min Scan# 1128

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

Instrument :
MSVOA_V
ClientSampled :
VSTD02578

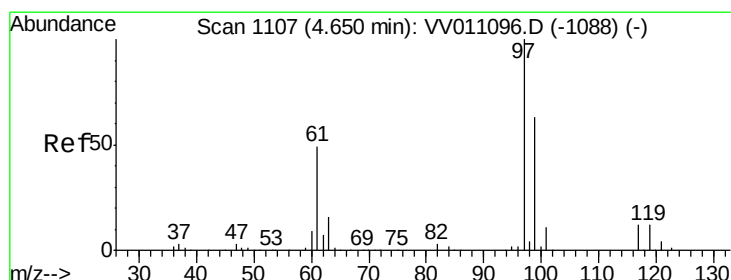
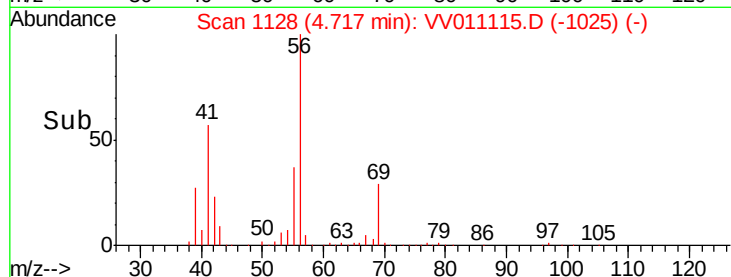
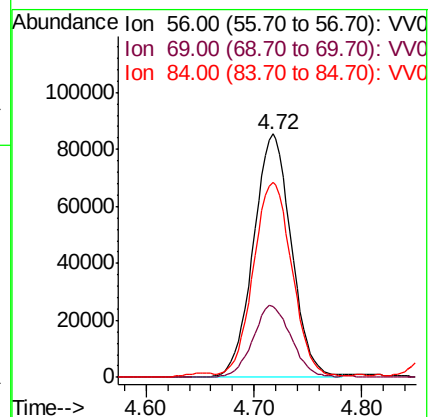
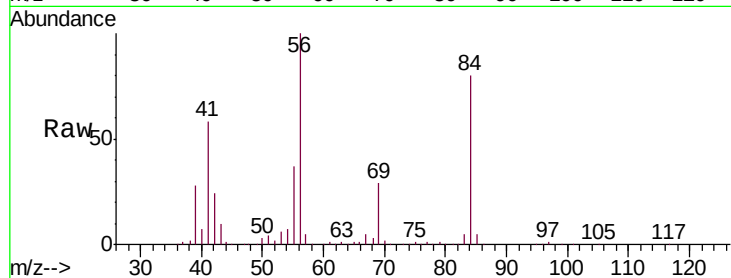
Tgt Ion: 56 Resp: 207606

Ion Ratio Lower Upper

56 100

69 29.7 23.2 34.8

84 82.3 63.2 94.8



#31

1,1,1-Trichloroethane

Concen: 23.733 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

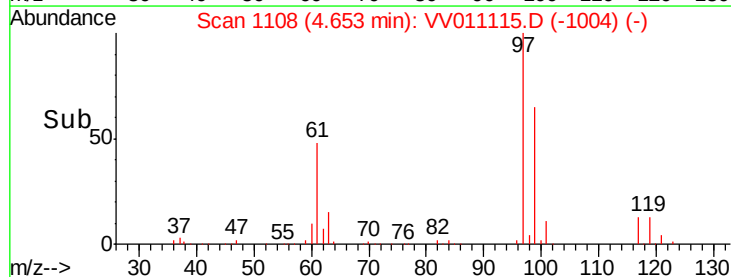
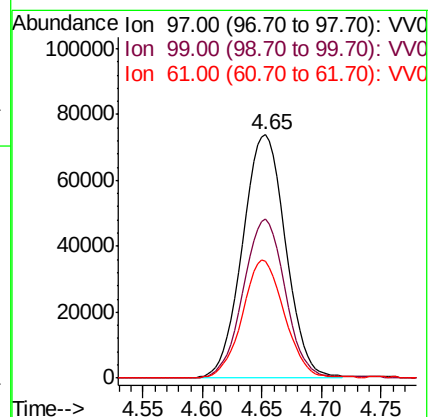
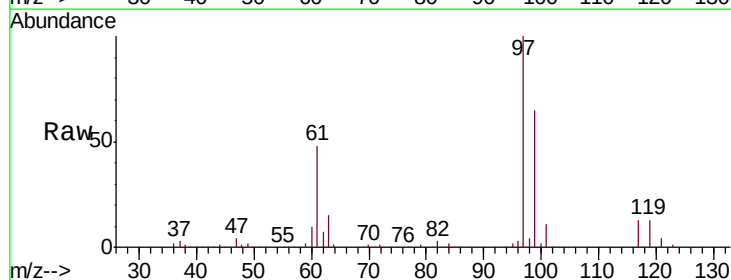
Tgt Ion: 97 Resp: 186005

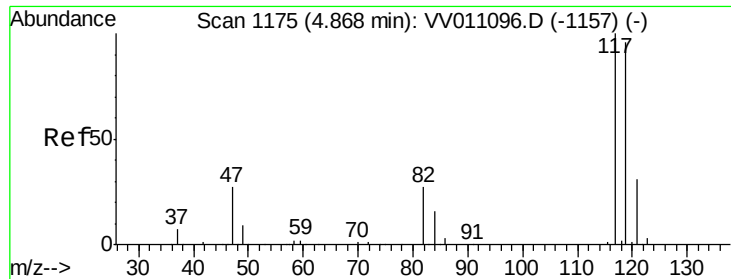
Ion Ratio Lower Upper

97 100

99 63.3 51.5 77.3

61 46.8 38.2 57.2





#32

Carbon tetrachloride

Concen: 22.737 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

Instrument :

MSVOA_V

ClientSampleId :

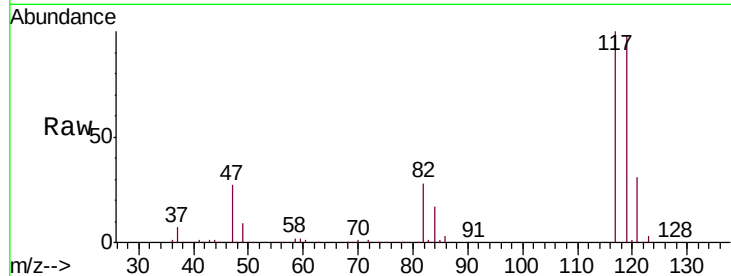
VSTD02578

Tgt Ion:117 Resp: 152628

Ion Ratio Lower Upper

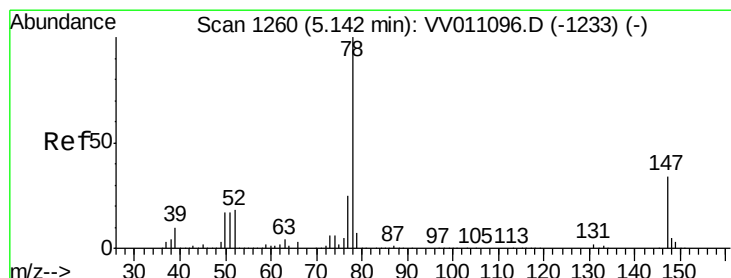
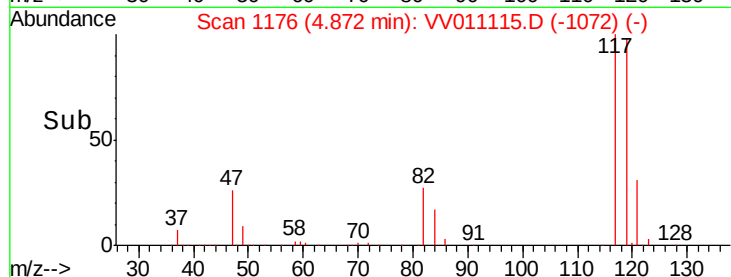
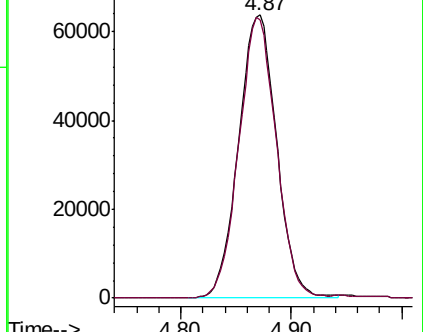
117 100

119 97.2 76.6 115.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 23.628 ug/L

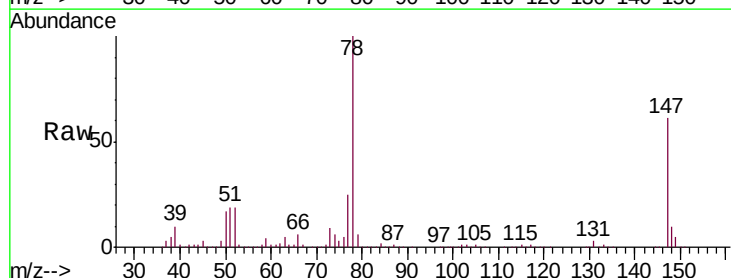
RT: 5.14 min Scan# 1260

Delta R.T. -0.00 min

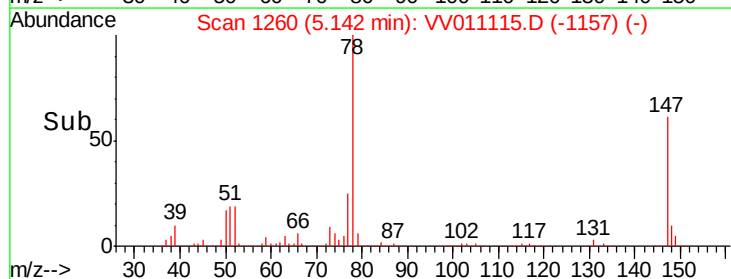
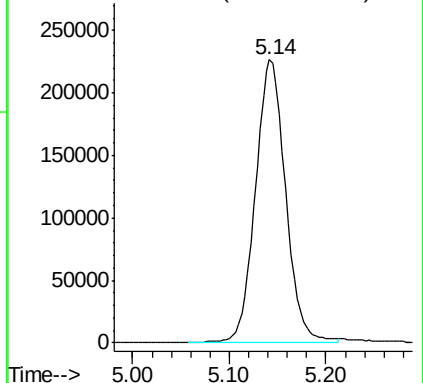
Lab File: VV011115.D

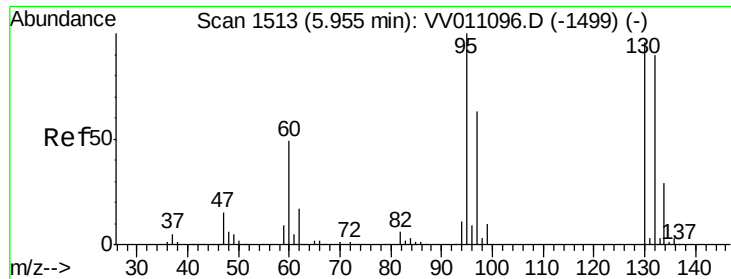
Acq: 29 May 2019 20:00

Tgt Ion: 78 Resp: 491828



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 23.393 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD02578

Tgt Ion: 95 Resp: 127175

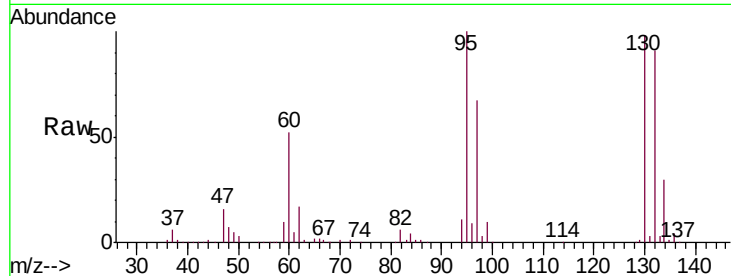
Ion Ratio Lower Upper

95 100

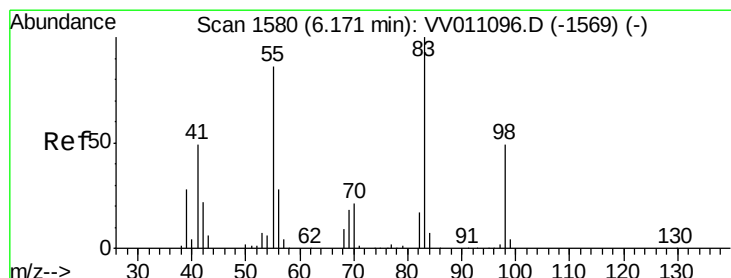
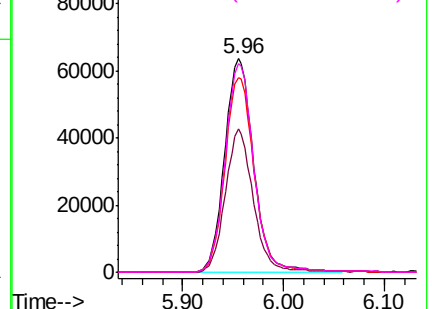
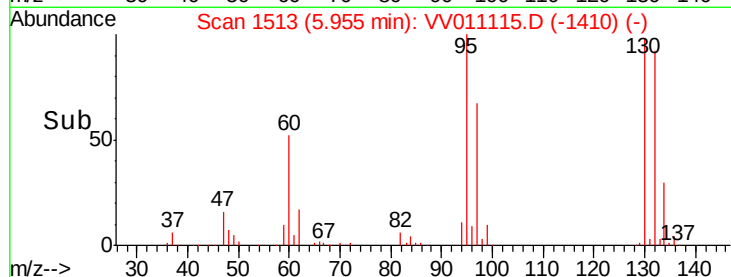
97 65.0 45.4 84.4

132 93.0 66.1 122.8

130 97.5 68.9 127.9



Abundance Ion 95.00 (94.70 to 95.70): VV011115.D (-1410) (-)



#36

Methylcyclohexane

Concen: 21.900 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

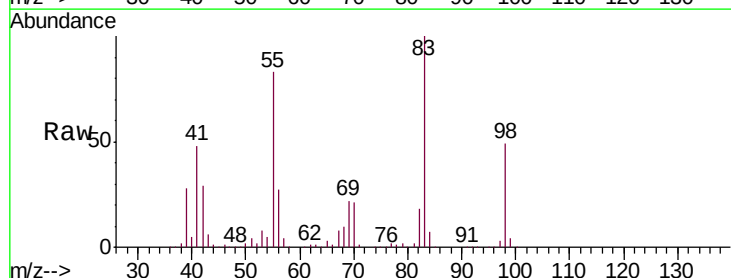
Tgt Ion: 83 Resp: 205432

Ion Ratio Lower Upper

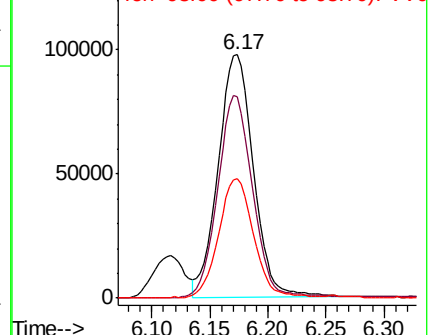
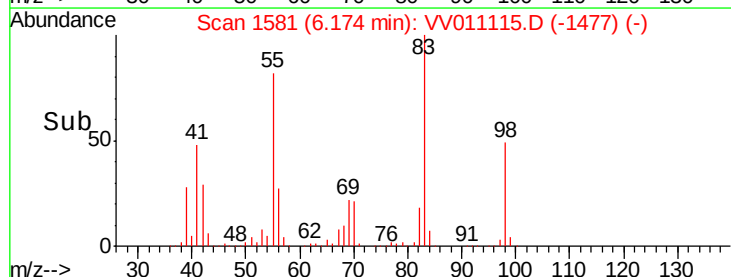
83 100

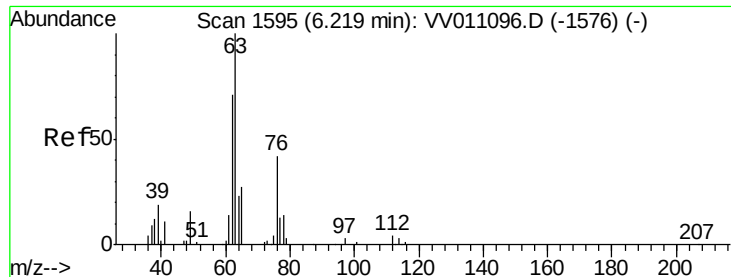
55 84.0 69.9 104.9

98 48.2 40.0 60.0



Abundance Ion 83.00 (82.70 to 83.70): VV011115.D (-1477) (-)





#40

1,2-Dichloropropane

Concen: 24.560 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

Instrument :

MSVOA_V

ClientSampleId :

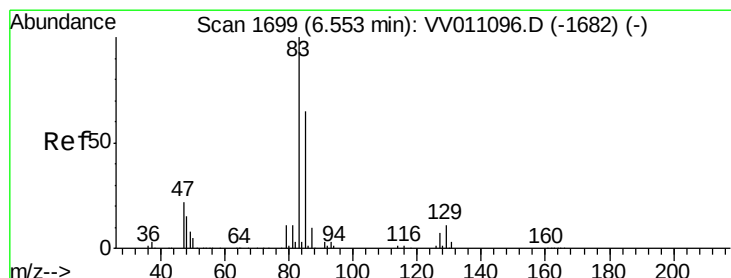
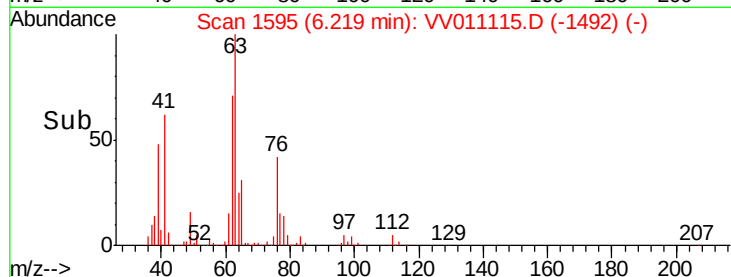
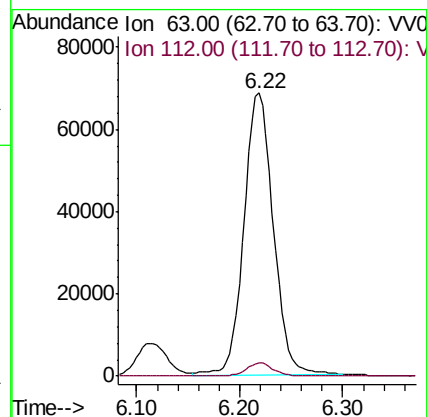
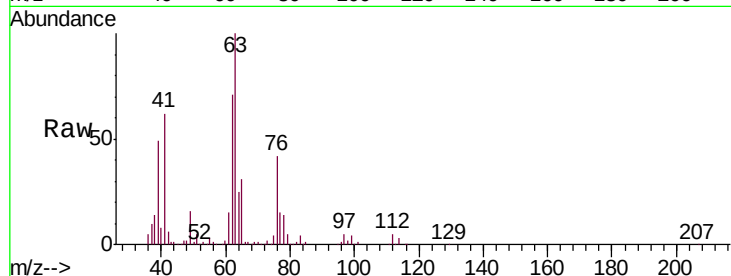
VSTD02578

Tgt Ion: 63 Resp: 136243

Ion Ratio Lower Upper

63 100

112 4.2 3.3 4.9



#41

Bromodichloromethane

Concen: 24.828 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

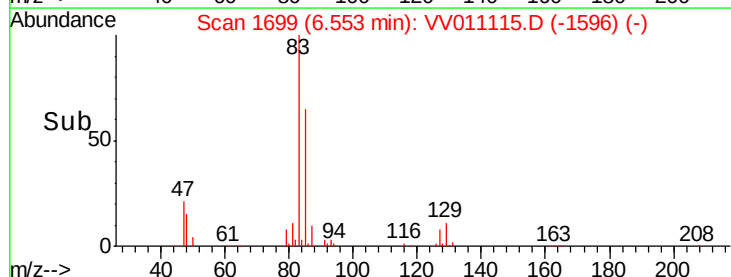
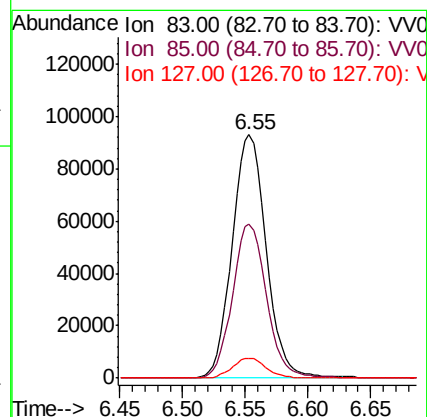
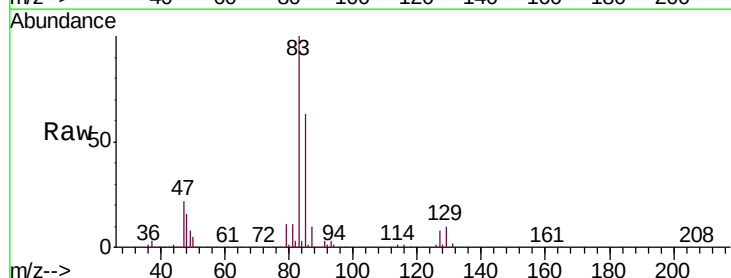
Tgt Ion: 83 Resp: 174609

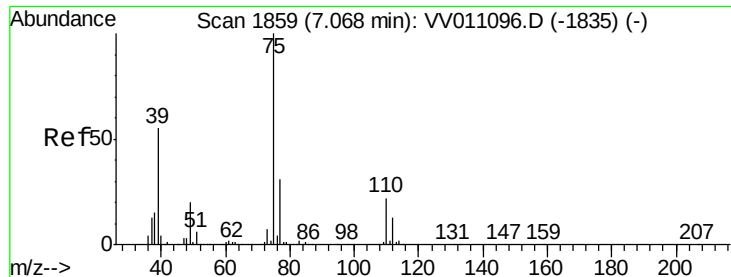
Ion Ratio Lower Upper

83 100

85 63.4 44.4 82.4

127 8.1 6.2 9.4



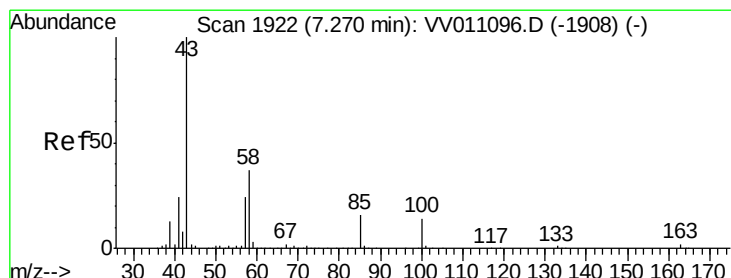
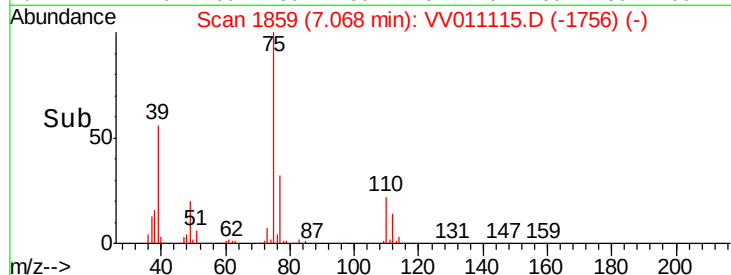
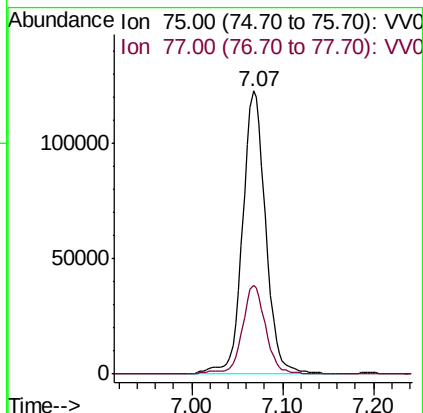
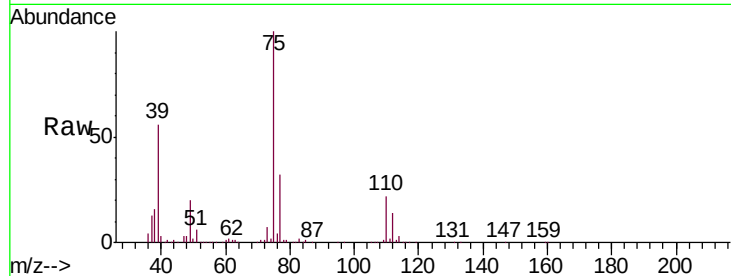


#42

cis-1,3-Dichloropropene
Concen: 24.447 ug/L
RT: 7.07 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VV011115.D
Acq: 29 May 2019 20:00

Instrument :
MSVOA_V
ClientSampled :
VSTD02578

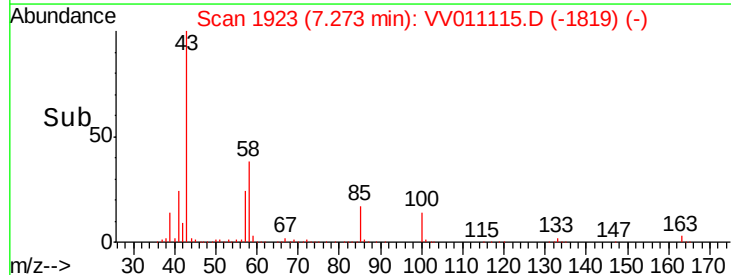
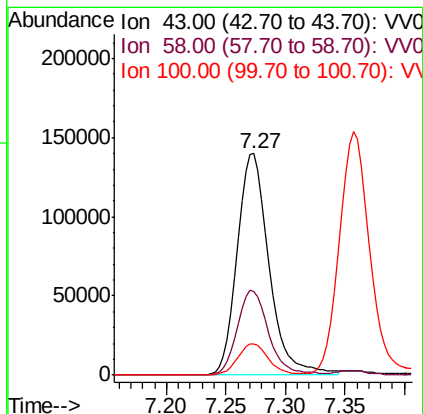
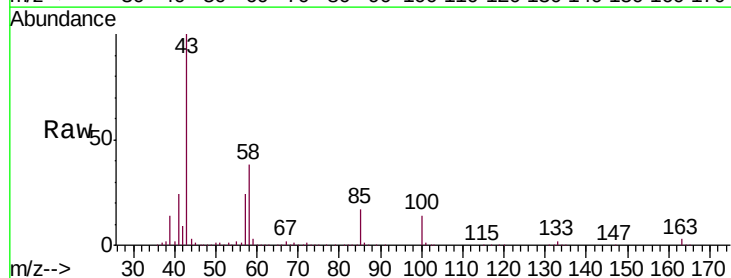
Tgt Ion: 75 Resp: 216673
Ion Ratio Lower Upper
75 100
77 31.6 22.5 41.7

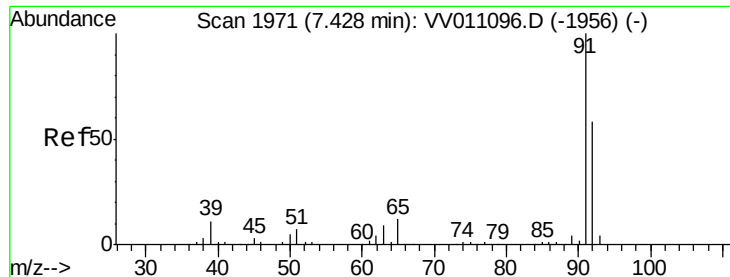


#43

4-Methyl-2-pentanone
Concen: 53.308 ug/L
RT: 7.27 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VV011115.D
Acq: 29 May 2019 20:00

Tgt Ion: 43 Resp: 259340
Ion Ratio Lower Upper
43 100
58 37.8 30.3 45.5
100 13.7 10.6 15.8





#44

Toluene

Concen: 23.692 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

Instrument :

MSVOA_V

ClientSampleId :

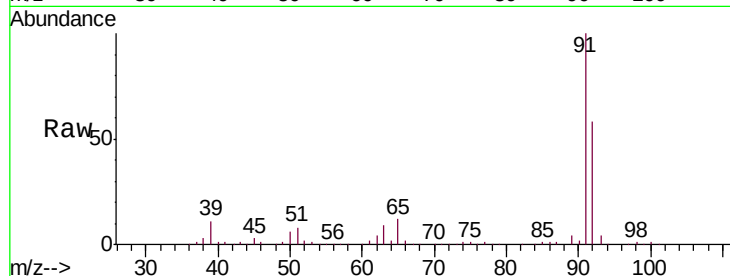
VSTD02578

Tgt Ion: 91 Resp: 536189

Ion Ratio Lower Upper

91 100

92 58.0 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VV011115.D (-1868) (-)

Ion 92.00 (91.70 to 92.70): VV011115.D (-1868) (-)

7.43

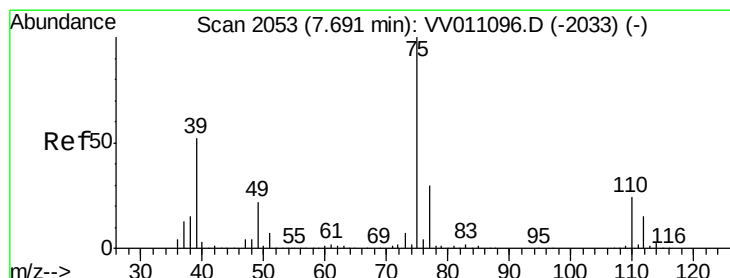
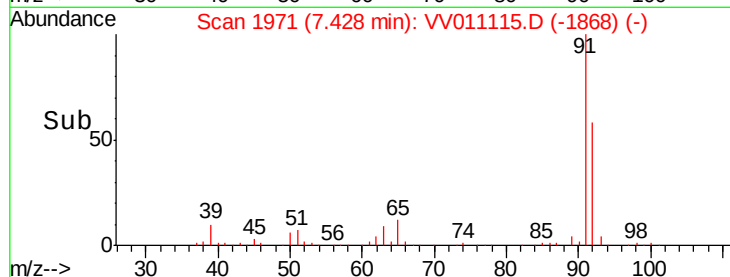
300000

200000

100000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 24.405 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV011115.D

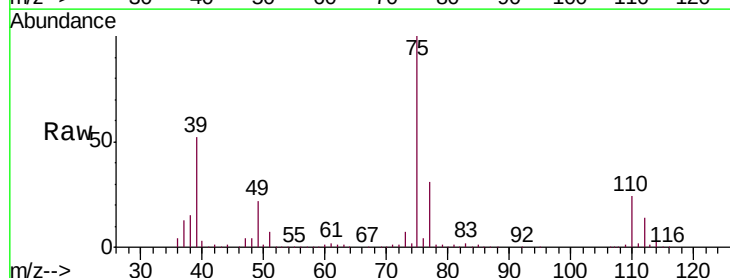
Acq: 29 May 2019 20:00

Tgt Ion: 75 Resp: 184576

Ion Ratio Lower Upper

75 100

77 30.9 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VV011115.D (-1950) (-)

Ion 77.00 (76.70 to 77.70): VV011115.D (-1950) (-)

7.69

120000

100000

80000

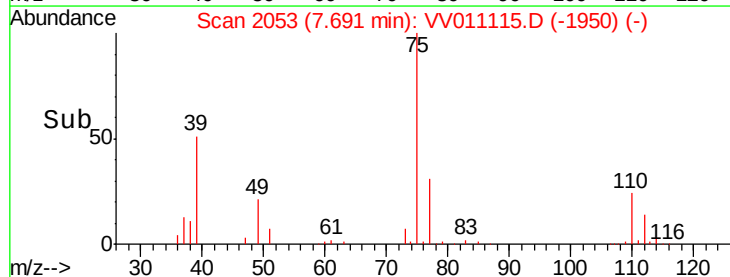
60000

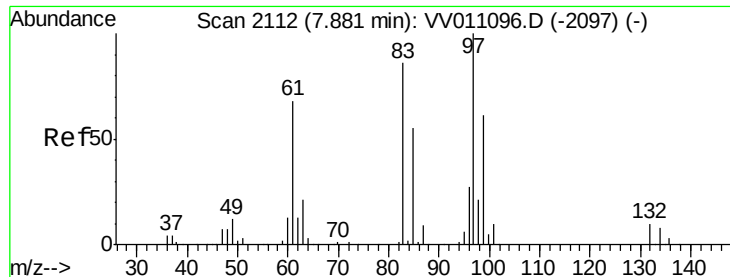
40000

20000

0

Time-->

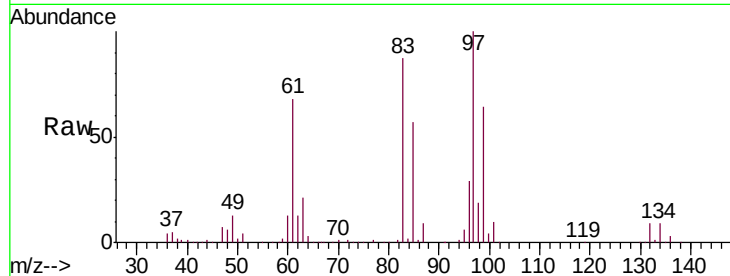




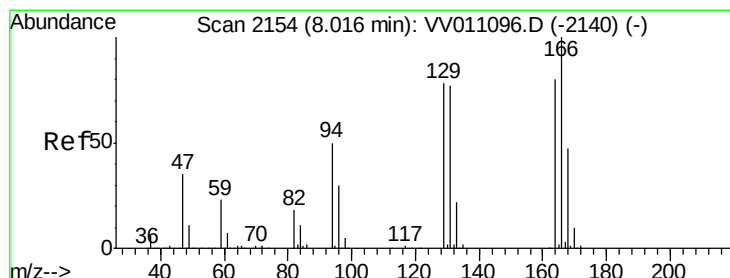
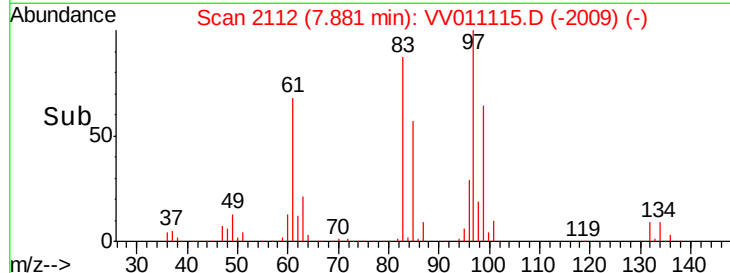
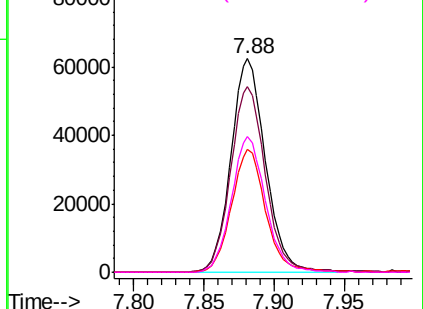
#46
1,1,2-Trichloroethane
Concen: 26.014 ug/L
RT: 7.88 min Scan# 2112
Delta R.T. -0.00 min
Lab File: VV011115.D
Acq: 29 May 2019 20:00

Instrument :
MSVOA_V
ClientSampleId :
VSTD02578

Tgt Ion:	97	Resp:	106954
Ion	Ratio	Lower	Upper
97	100		
83	87.0	63.5	117.9
85	57.4	40.3	74.9
99	63.6	44.4	82.5

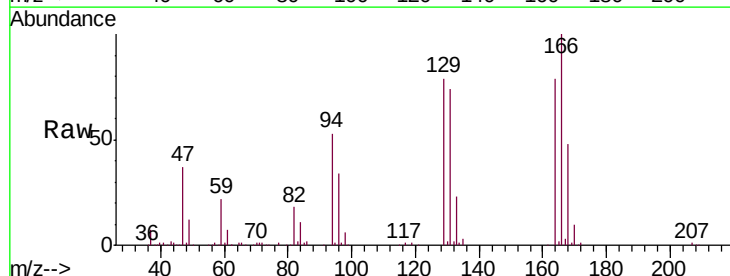


Abundance Ion 97.00 (96.70 to 97.70): VV011115.D (-2099) (-)
Ion 83.00 (82.70 to 83.70): VV011115.D (-2099) (-)
Ion 85.00 (84.70 to 85.70): VV011115.D (-2099) (-)
Ion 99.00 (98.70 to 99.70): VV011115.D (-2099) (-)

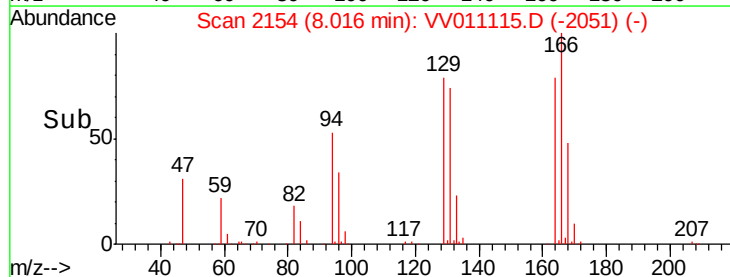
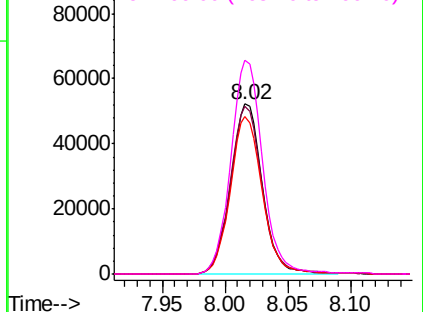


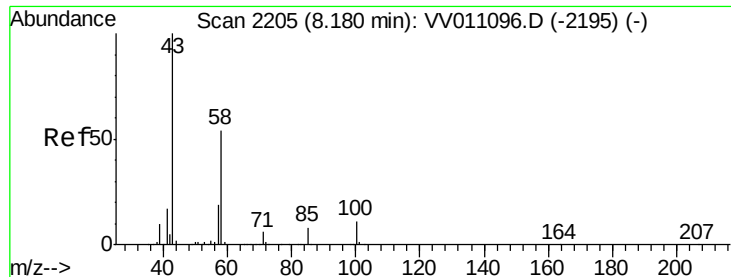
#47
Tetrachloroethene
Concen: 23.261 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. -0.00 min
Lab File: VV011115.D
Acq: 29 May 2019 20:00

Tgt Ion:	164	Resp:	91200
Ion	Ratio	Lower	Upper
164	100		
129	98.8	70.7	131.3
131	92.6	66.6	123.8
166	125.9	90.2	167.6



Abundance Ion 164.00 (163.70 to 164.70): VV011115.D (-2051) (-)
Ion 129.00 (128.70 to 129.70): VV011115.D (-2051) (-)
Ion 131.00 (130.70 to 131.70): VV011115.D (-2051) (-)
Ion 166.00 (165.70 to 166.70): VV011115.D (-2051) (-)

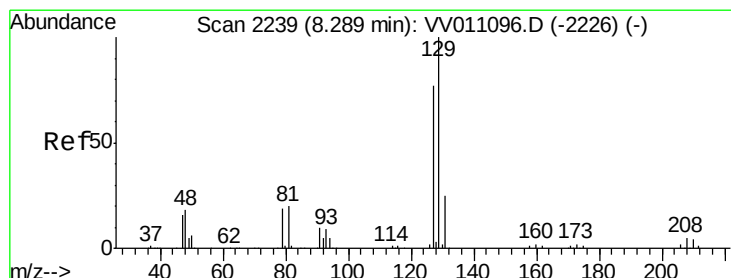
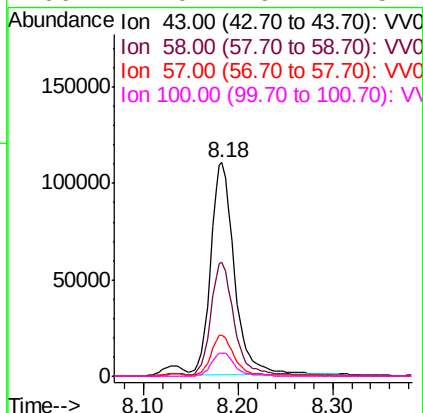
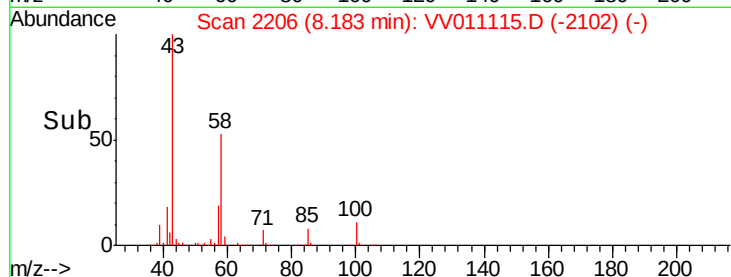
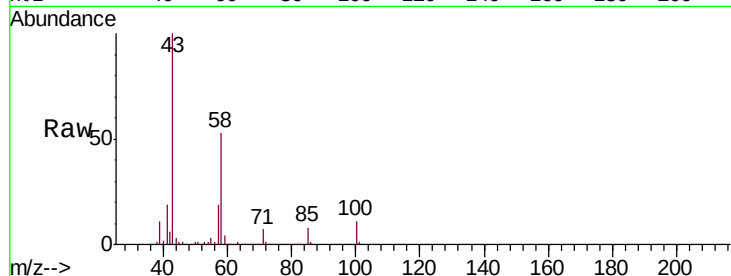




#49
2-Hexanone
Concen: 53.600 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV011115.D
Acq: 29 May 2019 20:00

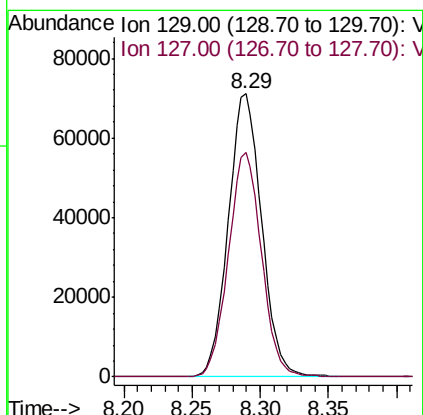
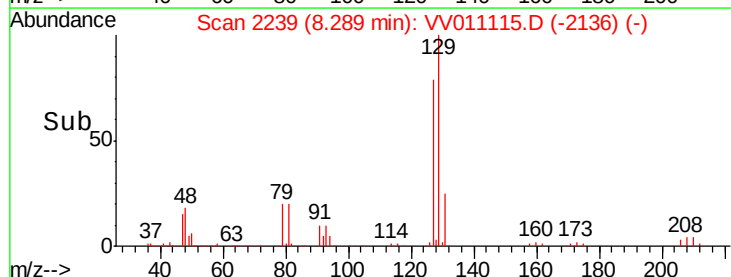
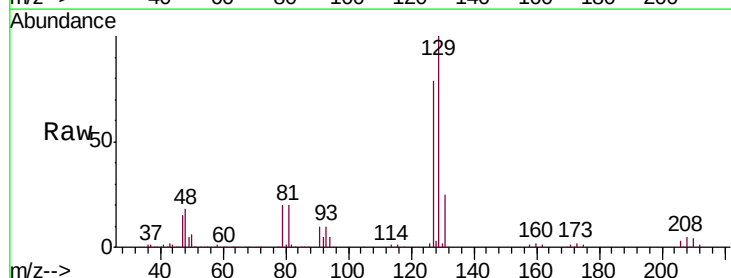
Instrument :
MSVOA_V
ClientSampleId :
VSTD02578

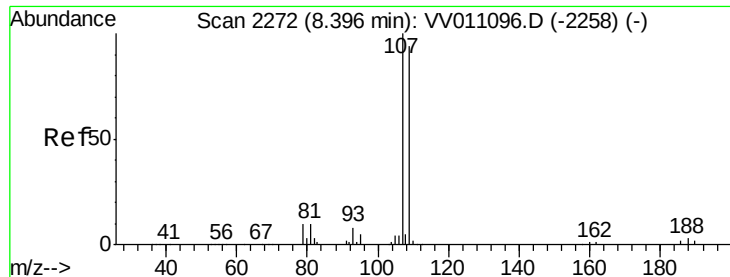
Tgt Ion: 43 Resp: 192308
Ion Ratio Lower Upper
43 100
58 51.6 43.5 65.3
57 18.3 13.7 20.5
100 11.0 9.1 13.7



#50
Dibromochloromethane
Concen: 25.403 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV011115.D
Acq: 29 May 2019 20:00

Tgt Ion: 129 Resp: 121011
Ion Ratio Lower Upper
129 100
127 79.4 54.6 101.4





#51

1,2-Dibromoethane

Concen: 26.544 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD02578

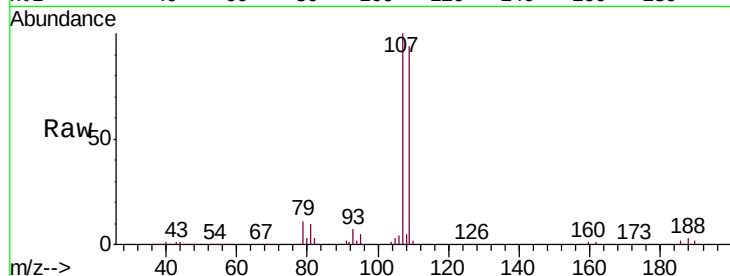
Tgt Ion:107 Resp: 104434

Ion Ratio Lower Upper

107 100

109 93.9 65.7 122.1

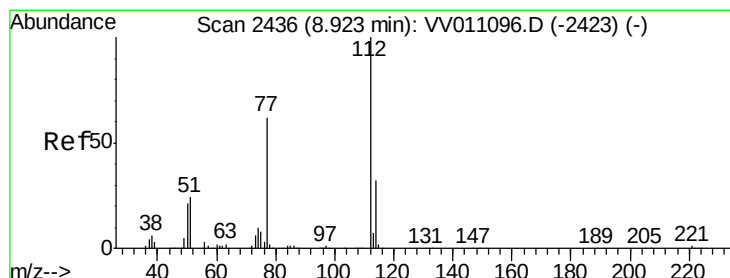
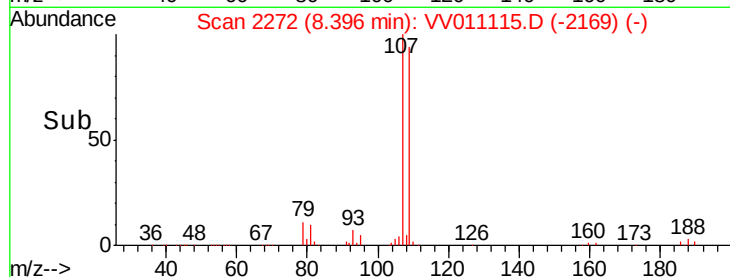
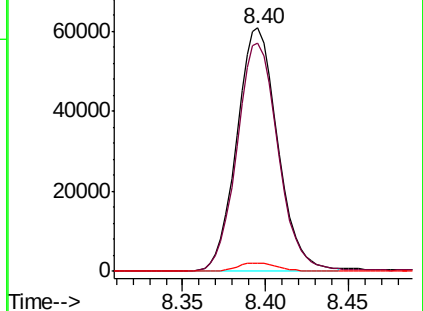
188 3.3 2.6 3.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 24.708 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

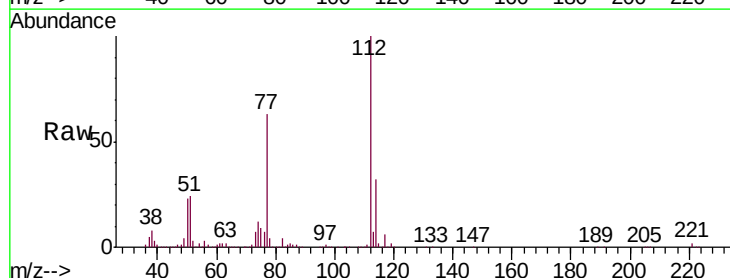
Tgt Ion:112 Resp: 346544

Ion Ratio Lower Upper

112 100

77 62.8 50.8 76.2

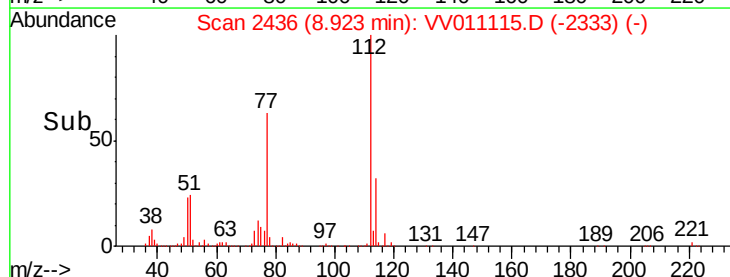
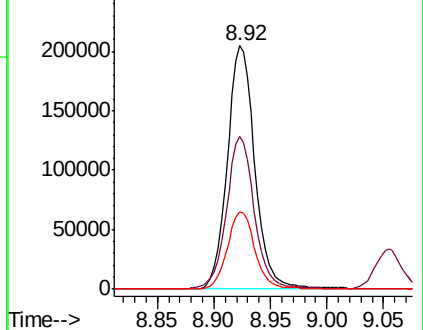
114 31.6 22.7 42.1

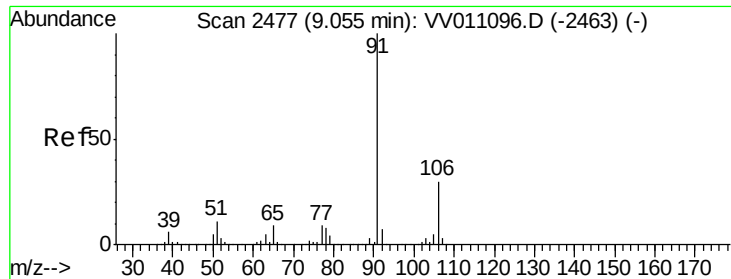


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V

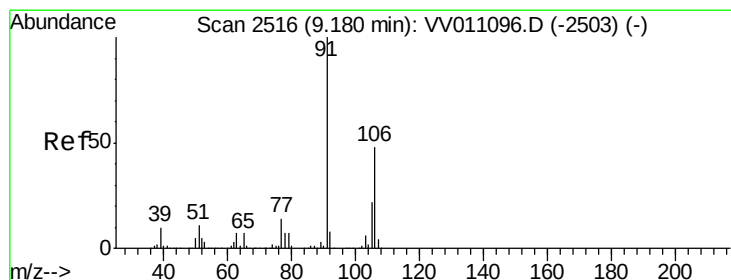
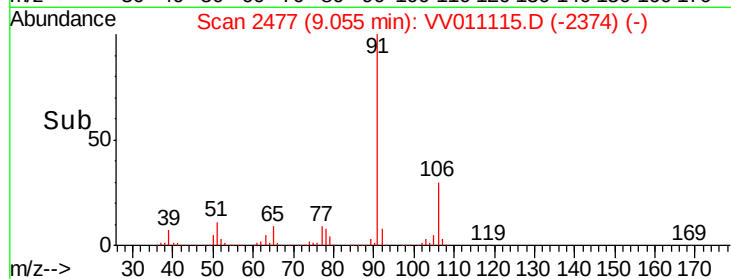
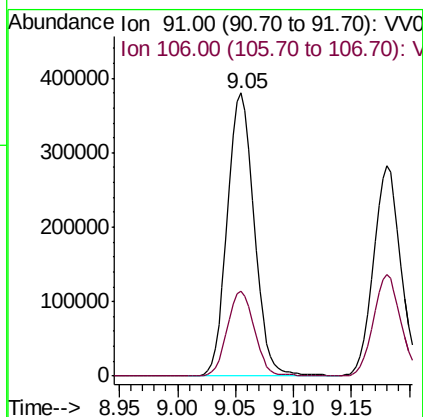
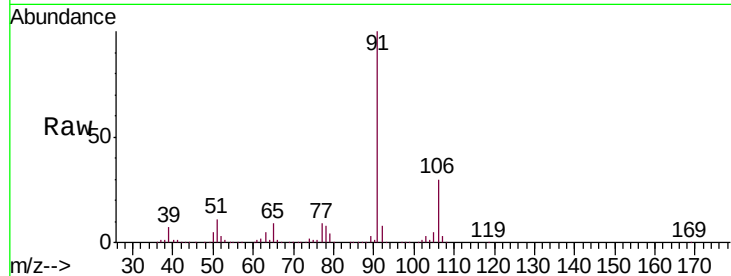




#53
Ethylbenzene
Concen: 23.661 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. -0.00 min
Lab File: VV011115.D
Acq: 29 May 2019 20:00

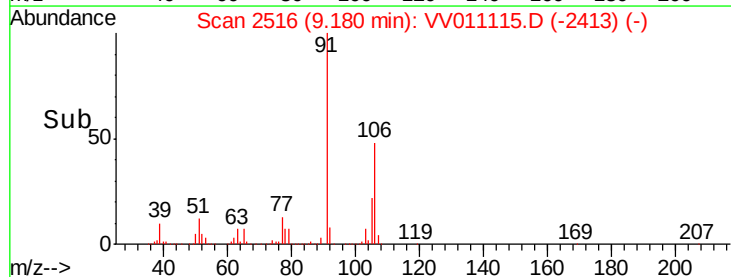
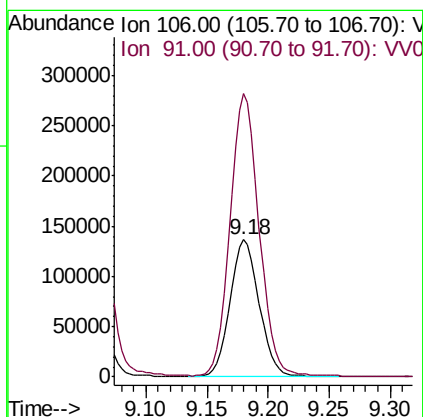
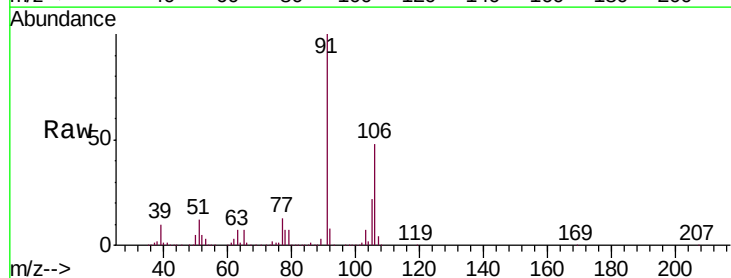
Instrument :
MSVOA_V
ClientSampleId :
VSTD02578

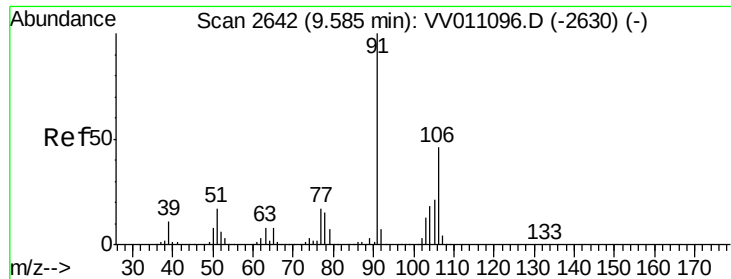
Tgt Ion: 91 Resp: 610463
Ion Ratio Lower Upper
91 100
106 30.1 21.3 39.6



#54
m,p-Xylene
Concen: 23.545 ug/L
RT: 9.18 min Scan# 2516
Delta R.T. -0.00 min
Lab File: VV011115.D
Acq: 29 May 2019 20:00

Tgt Ion: 106 Resp: 226280
Ion Ratio Lower Upper
106 100
91 206.9 145.7 270.7





#55

o-xylene

Concen: 24.149 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

Instrument :

MSVOA_V

ClientSampleId :

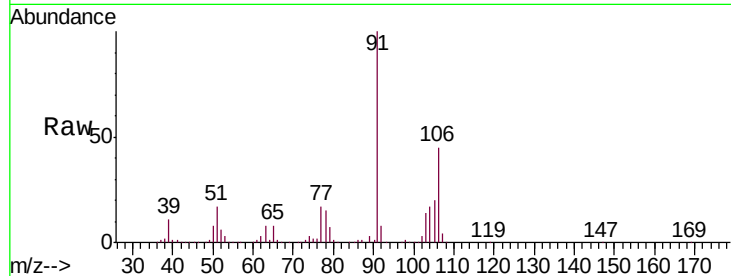
VSTD02578

Tgt Ion:106 Resp: 225517

Ion Ratio Lower Upper

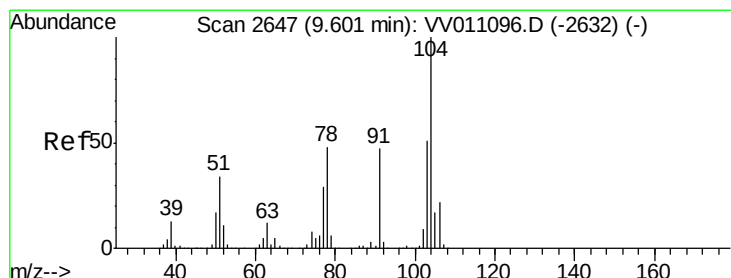
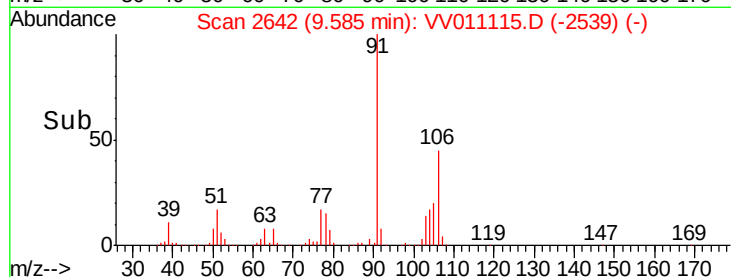
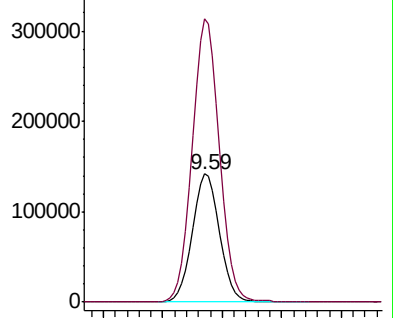
106 100

91 221.0 151.5 281.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 24.902 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV011115.D

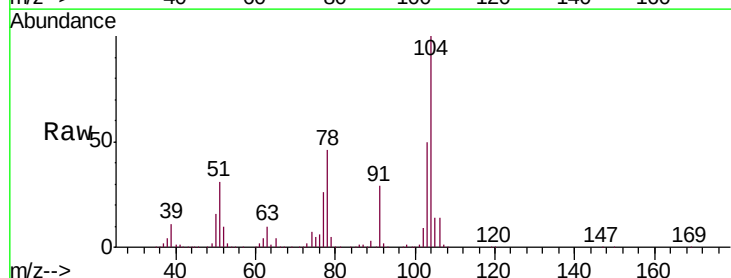
Acq: 29 May 2019 20:00

Tgt Ion:104 Resp: 394303

Ion Ratio Lower Upper

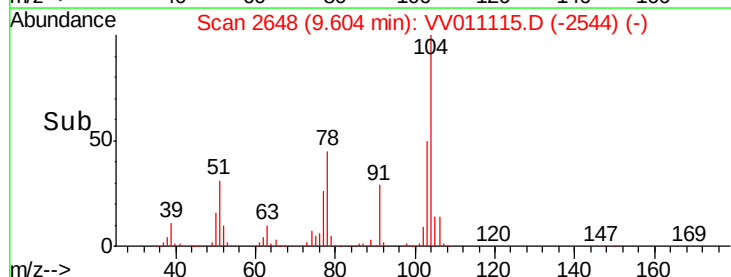
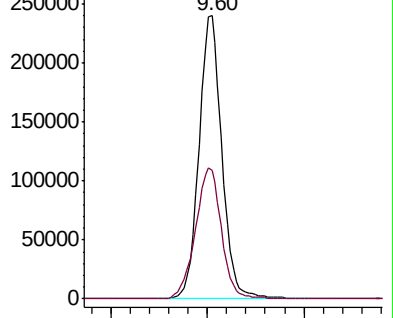
104 100

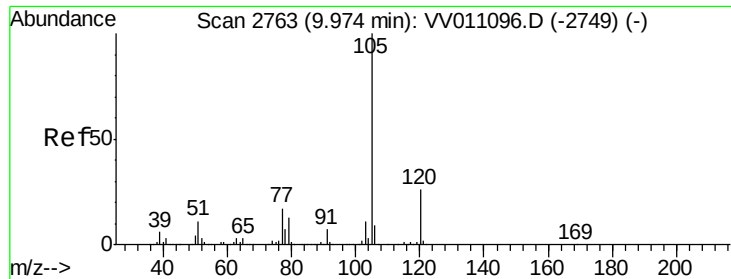
78 45.5 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 23.536 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD02578

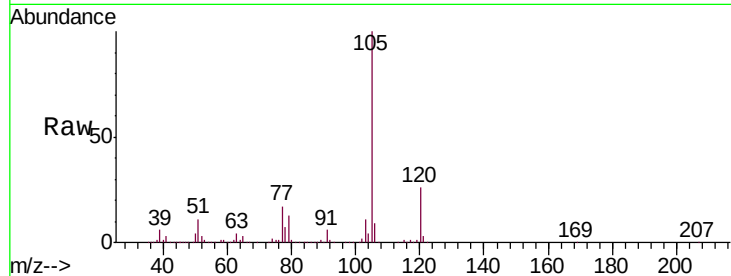
Tgt Ion: 105 Resp: 586596

Ion Ratio Lower Upper

105 100

120 26.2 21.0 31.4

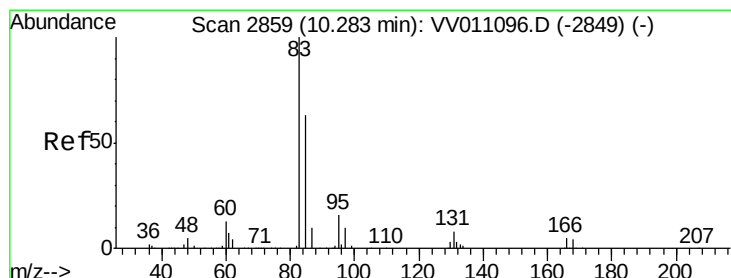
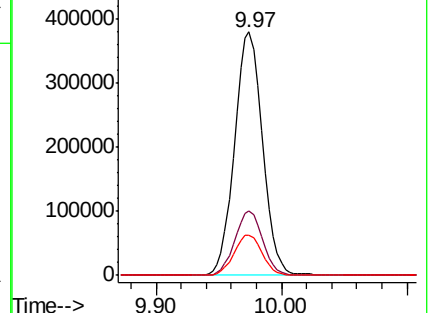
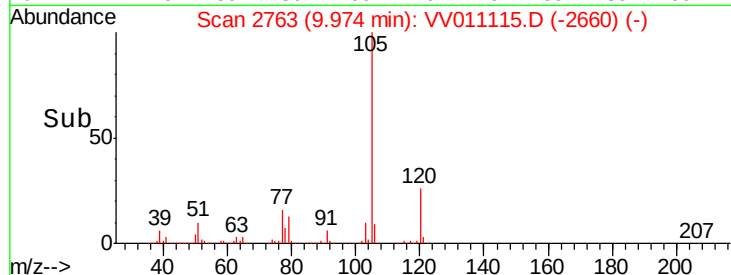
77 16.8 13.3 19.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 27.550 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

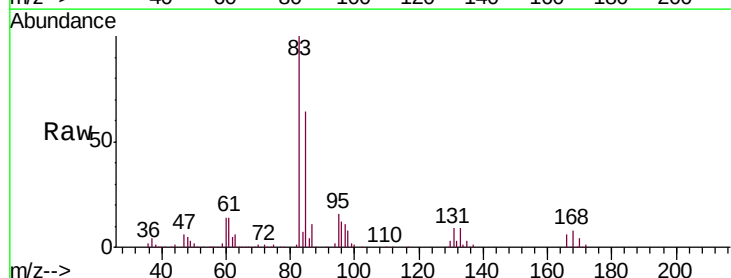
Tgt Ion: 83 Resp: 149217

Ion Ratio Lower Upper

83 100

85 63.6 44.7 82.9

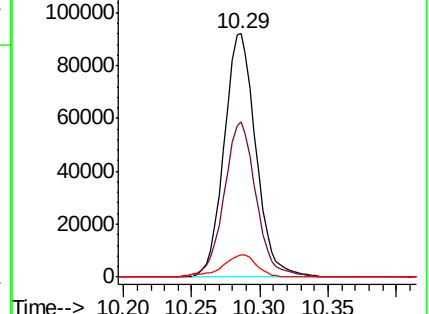
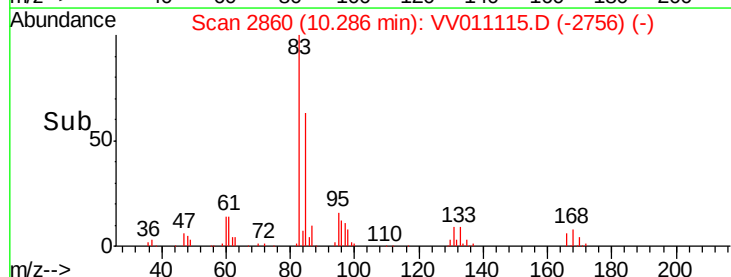
131 9.3 7.1 10.7

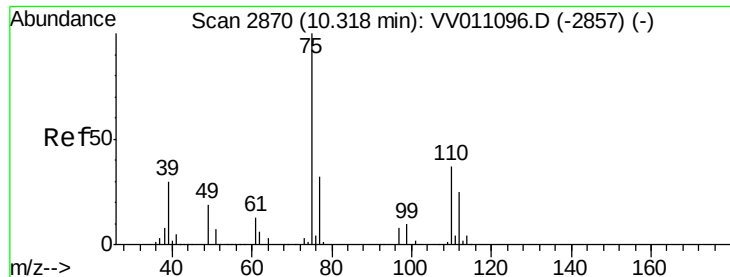


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 28.291 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

Instrument :

MSVOA_V

ClientSampleId :

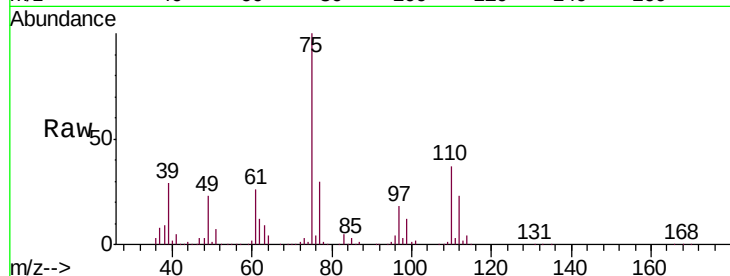
VSTD02578

Tgt Ion: 75 Resp: 117103

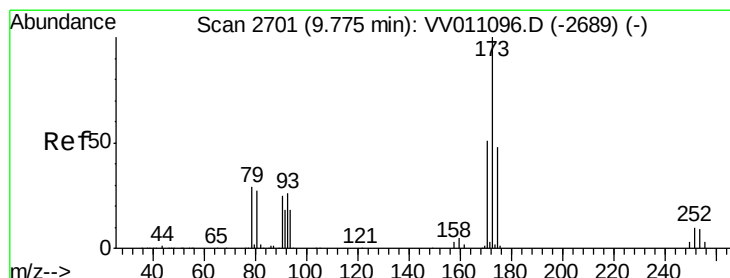
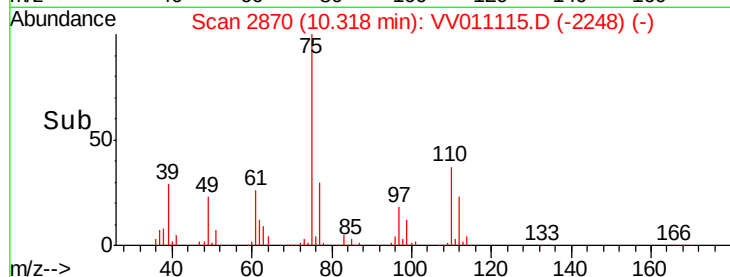
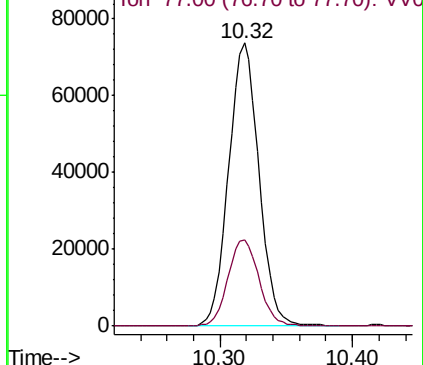
Ion Ratio Lower Upper

75 100

77 31.4 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VV011096.D (-2857) (-)



#62

Bromoform

Concen: 24.907 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

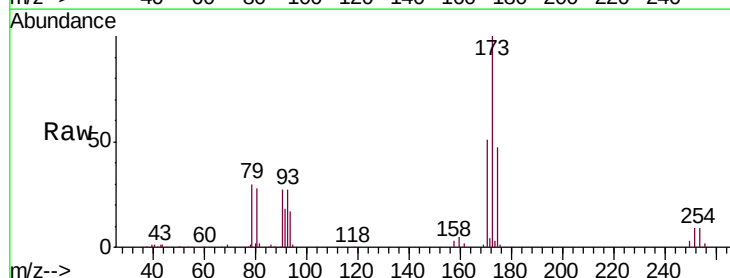
Tgt Ion: 173 Resp: 69264

Ion Ratio Lower Upper

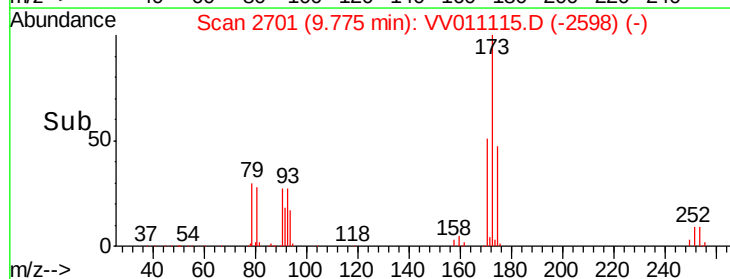
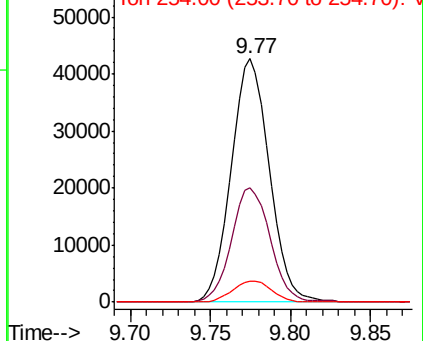
173 100

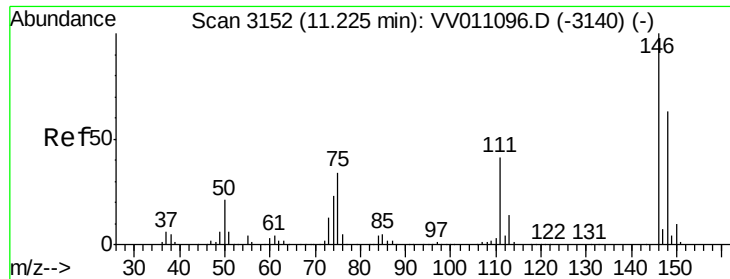
175 47.9 39.0 58.4

254 8.9 7.0 10.4



Abundance Ion 173.00 (172.70 to 173.70): VV011096.D (-2689) (-)





#63

1,3-Dichlorobenzene

Concen: 24.206 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD02578

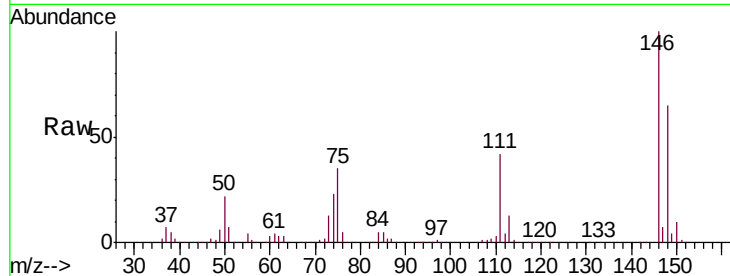
Tgt Ion:146 Resp: 263251

Ion Ratio Lower Upper

146 100

111 41.9 29.6 55.0

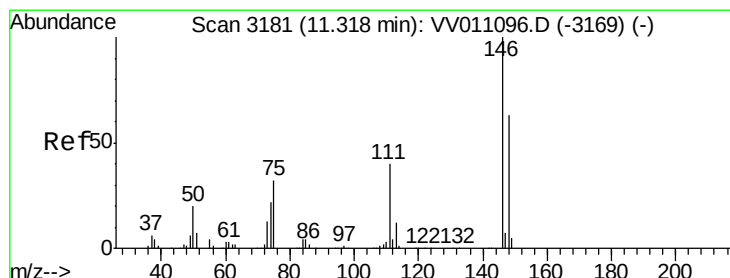
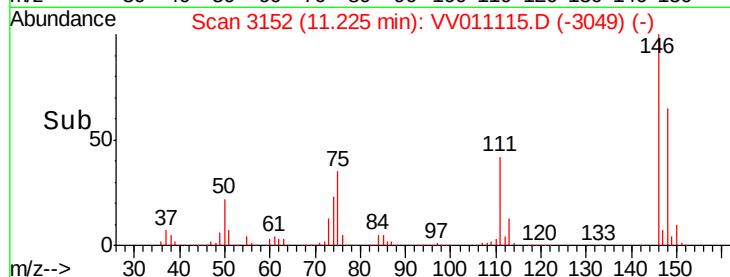
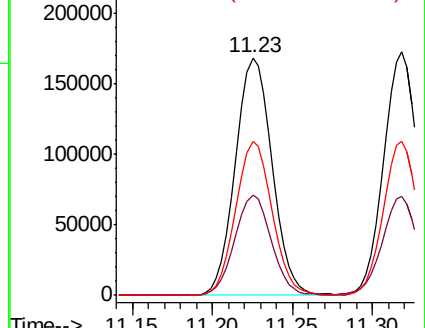
148 64.7 44.1 81.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#64

1,4-Dichlorobenzene

Concen: 24.409 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

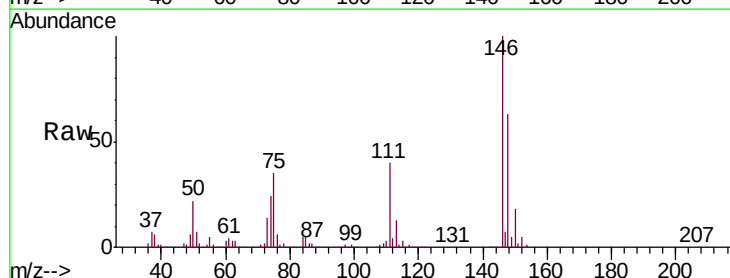
Tgt Ion:146 Resp: 264166

Ion Ratio Lower Upper

146 100

111 40.5 28.8 53.4

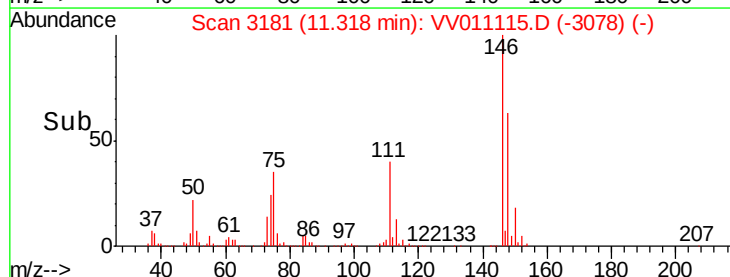
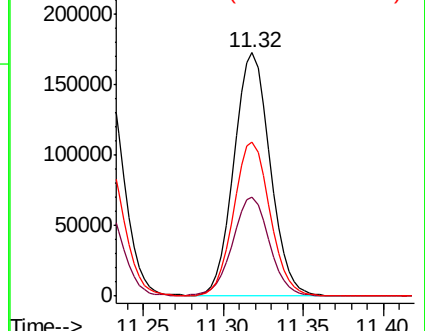
148 63.5 44.4 82.5

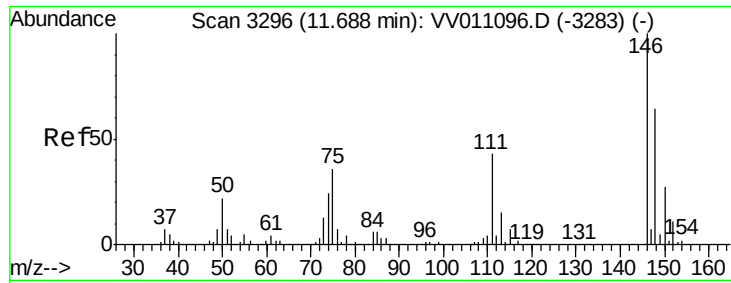


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

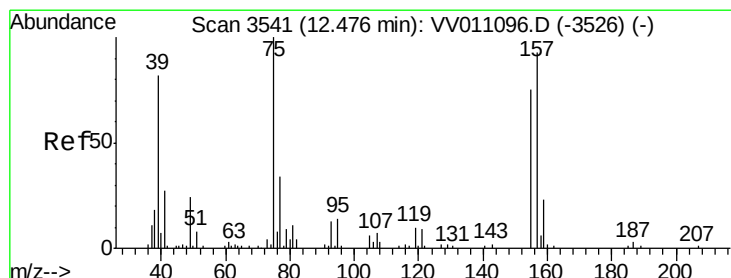
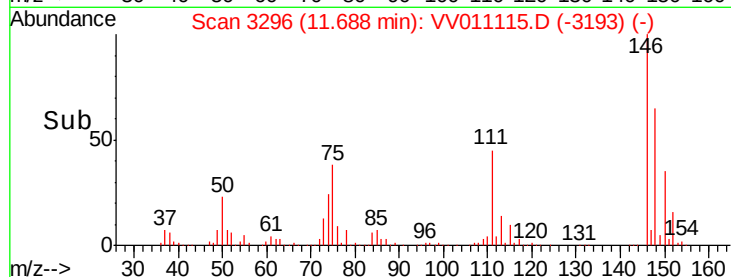
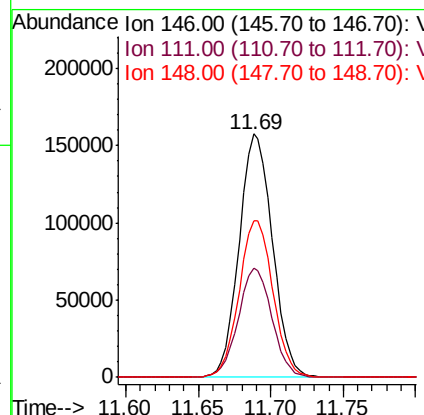
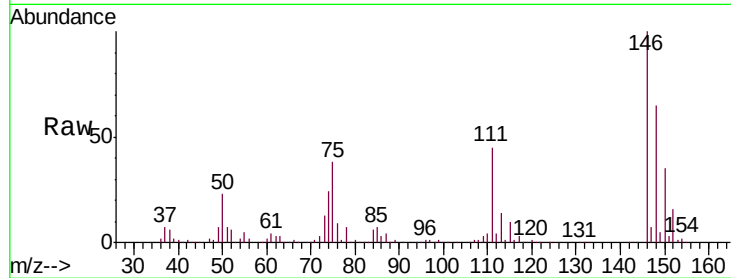




#65
 1,2-Dichlorobenzene
 Concen: 24.828 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. -0.00 min
 Lab File: VV011115.D
 Acq: 29 May 2019 20:00

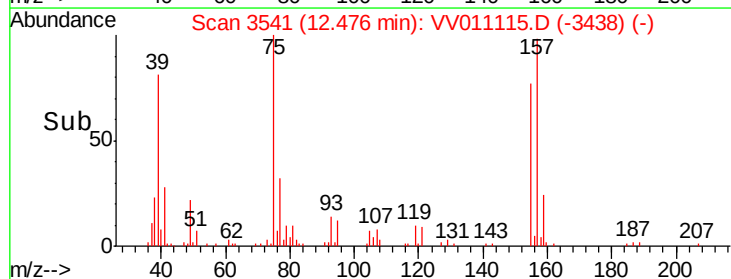
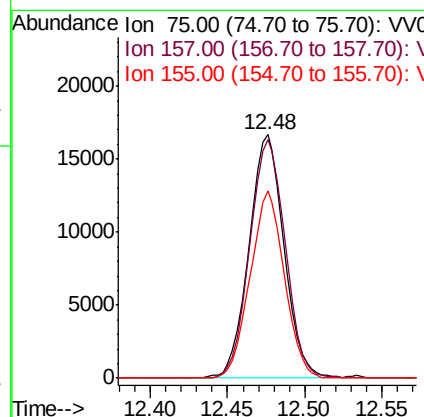
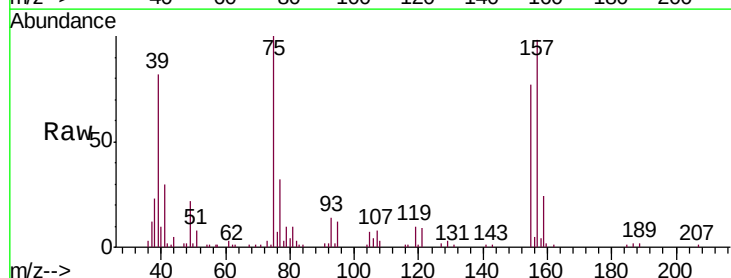
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02578

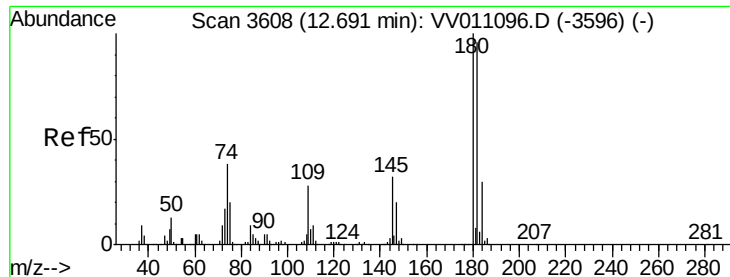
Tgt Ion: 146 Resp: 252314
 Ion Ratio Lower Upper
 146 100
 111 44.9 35.9 53.9
 148 64.6 51.4 77.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 25.389 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. -0.00 min
 Lab File: VV011115.D
 Acq: 29 May 2019 20:00

Tgt Ion: 75 Resp: 26338
 Ion Ratio Lower Upper
 75 100
 157 97.7 76.7 115.1
 155 76.8 61.8 92.8

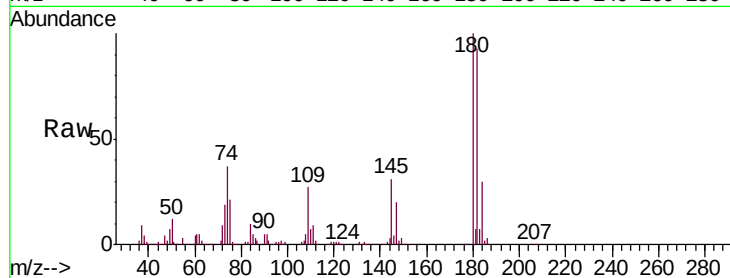




#67
 1,3,5-Trichlorobenzene
 Concen: 24.062 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV011115.D
 Acq: 29 May 2019 20:00

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02578

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.2	76.6	114.8
184	29.9	24.7	37.1
145	31.0	24.9	37.3



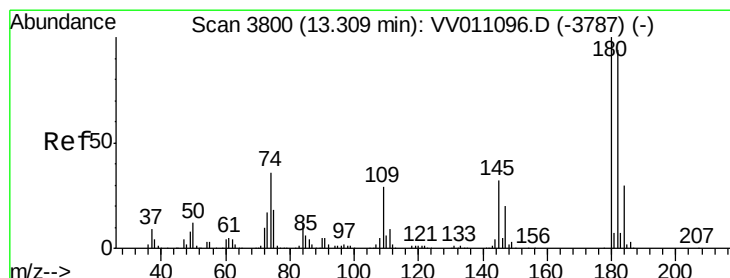
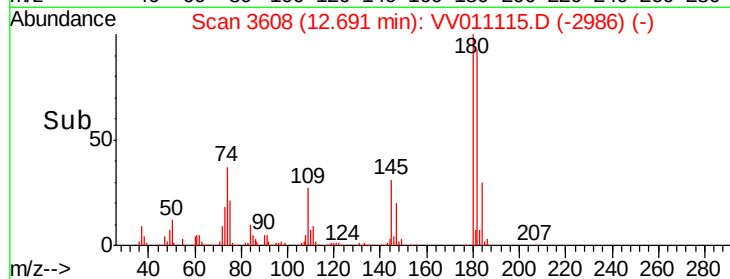
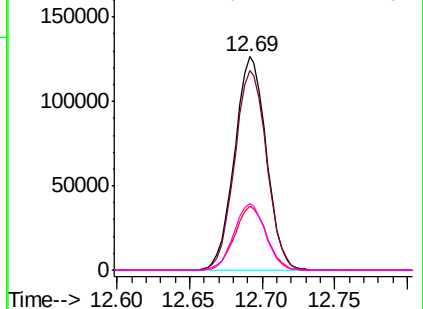
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

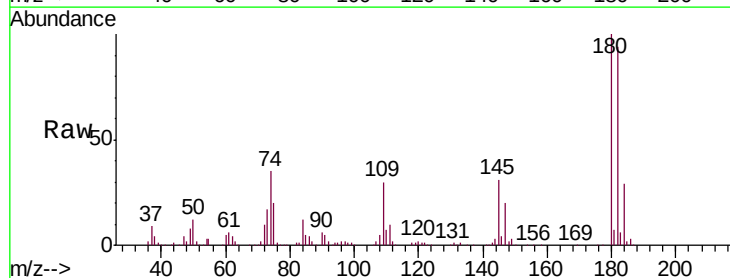
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 25.317 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV011115.D
 Acq: 29 May 2019 20:00

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.8	115.2
145	31.8	25.4	38.0

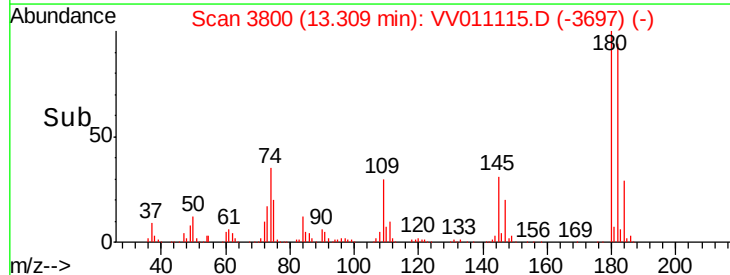
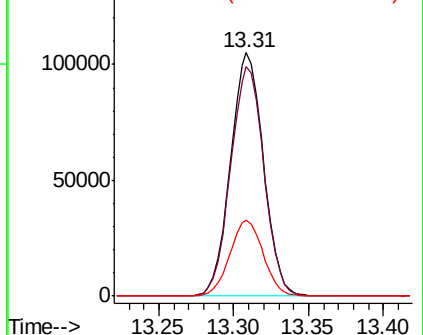


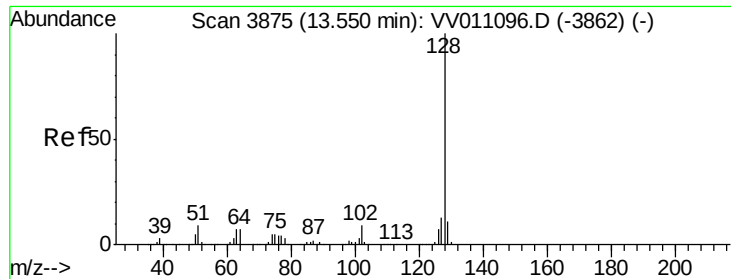
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 28.577 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD02578

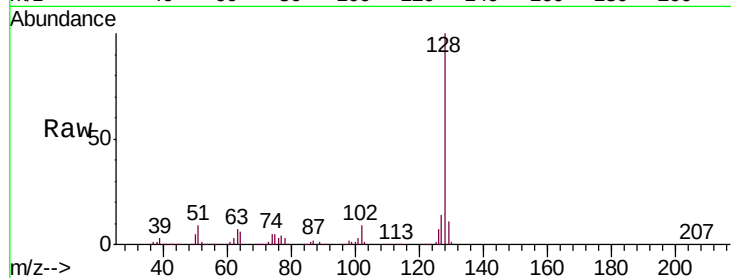
Tgt Ion:128 Resp: 375112

Ion Ratio Lower Upper

128 100

129 10.8 8.6 12.8

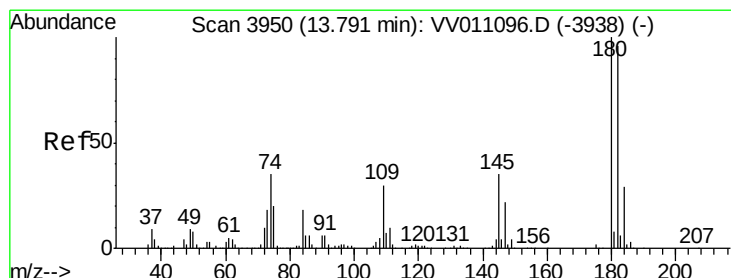
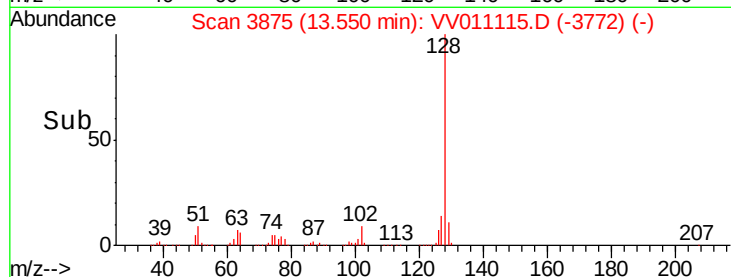
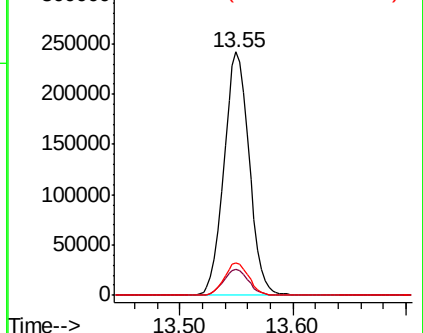
127 13.2 10.2 15.4



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: 26.243 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV011115.D

Acq: 29 May 2019 20:00

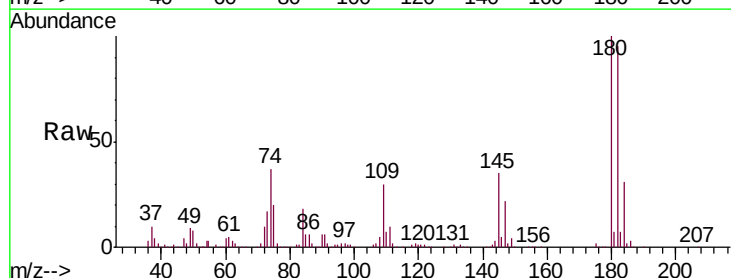
Tgt Ion:180 Resp: 152811

Ion Ratio Lower Upper

180 100

182 94.9 75.7 113.5

145 34.0 27.0 40.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

