

Data File : VV009358.D
Acq On : 25 Feb 2019 19:40
Operator : SY/MD
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02580

Quant Time: Feb 26 02:51:03 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM022019S.M
Quant Title : VOC Analysis
QLast Update : Tue Feb 26 02:46:42 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	106524	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	109940	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	55120	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	29622	20.90	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	83.60%
7) Chloroethane-d5	1.57	69	30507	18.20	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	72.80%
10) 1,1-Dichloroethene-d2	2.13	63	90146	25.87	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	103.48%
20) 2-Butanone-d5	3.93	46	18083	36.46	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	72.92%
24) Chloroform-d	4.40	84	55294	22.35	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	89.40%
26) 1,2-Dichloroethane-d4	5.08	65	28401	21.17	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	84.68%
29) Benzene-d6	5.10	84	115611	20.97	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	83.88%
33) 1,2-Dichloropropane-d6	6.12	67	36351	22.40	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	89.60%
37) Toluene-d8	7.36	98	116081	22.12	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	88.48%
38) trans-1,3-Dichloropropene-	7.66	79	17169	20.60	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	82.40%
39) 2-Hexanone-d5	8.13	63	16087	35.64	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	71.28%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	38519	21.71	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	86.84%
61) 1,2-Dichlorobenzene-d4	11.67	152	45570	22.51	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	90.04%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	24355	19.588 ug/L	96
3) Chloromethane	1.25	50	42860	28.215 ug/L	97
5) Vinyl chloride	1.32	62	53950	31.319 ug/L	96
6) Bromomethane	1.51	94	51480	32.114 ug/L	99
8) Chloroethane	1.59	64	37855	26.035 ug/L	98
9) Trichlorofluoromethane	1.76	101	96937	29.891 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	57049	30.761 ug/L	98
12) 1,1-Dichloroethene	2.14	96	49459	31.645 ug/L	94
13) Acetone	2.19	43	21039	43.394 ug/L	98
14) Carbon disulfide	2.32	76	93783	22.424 ug/L	99
15) Methyl Acetate	2.46	43	14363	20.317 ug/L	98
16) Methylene chloride	2.53	84	32423	20.121 ug/L	95
17) Methyl tert-butyl Ether	2.80	73	85893	24.811 ug/L	100
18) trans-1,2-Dichloroethene	2.79	96	34099	24.218 ug/L	96
19) 1,1-Dichloroethane	3.23	63	63511	27.157 ug/L	98
21) 2-Butanone	4.02	43	24502	44.112 ug/L	97
22) cis-1,2-Dichloroethene	3.96	96	43324	28.168 ug/L	95

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Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	19811	28.145	ug/L	93
25) Chloroform	4.43	83	69167	27.794	ug/L	95
27) 1,2-Dichloroethane	5.18	62	46806	27.776	ug/L	98
30) Cyclohexane	4.72	56	62921	24.690	ug/L	98
31) 1,1,1-Trichloroethane	4.66	97	58537	23.577	ug/L	98
32) Carbon tetrachloride	4.87	117	47872	22.817	ug/L	98
34) Benzene	5.15	78	160348	26.674	ug/L	100
35) Trichloroethene	5.96	95	41428	24.777	ug/L	98
36) Methylcyclohexane	6.18	83	73076	24.986	ug/L	98
40) 1,2-Dichloropropane	6.22	63	41619	28.525	ug/L	99
41) Bromodichloromethane	6.56	83	52314	25.177	ug/L	98
42) cis-1,3-Dichloropropene	7.07	75	68562	27.690	ug/L	98
43) 4-Methyl-2-pentanone	7.27	43	55398	45.232	ug/L	96
44) Toluene	7.43	91	186452	27.966	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	57004	26.291	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	33849	26.053	ug/L	97
47) Tetrachloroethene	8.02	164	33859	25.910	ug/L	99
49) 2-Hexanone	8.18	43	37946	40.286	ug/L	95
50) Dibromochloromethane	8.29	129	41558	26.528	ug/L	96
51) 1,2-Dibromoethane	8.40	107	33997	26.089	ug/L	99
52) Chlorobenzene	8.93	112	127692	29.413	ug/L	98
53) Ethylbenzene	9.06	91	210724	27.977	ug/L	99
54) m,p-Xylene	9.18	106	85487	29.088	ug/L	98
55) o-xylene	9.59	106	83814	30.383	ug/L	100
56) Styrene	9.60	104	140537	29.687	ug/L	98
57) Isopropylbenzene	9.98	105	218863	28.659	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	48706	26.565	ug/L	96
59) 1,2,3-Trichloropropane	10.32	75	32827	24.986	ug/L	98
62) Bromoform	9.78	173	24893	24.427	ug/L #	99
63) 1,3-Dichlorobenzene	11.23	146	98632	27.856	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	99087	28.074	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	94380	28.428	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	7339	19.905	ug/L	97
67) 1,3,5-Trichlorobenzene	12.69	180	73690	28.762	ug/L	96
68) 1,2,4-trichlorobenzene	13.31	180	56761	27.152	ug/L	98
69) Naphthalene	13.55	128	101783	22.715	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	51409	26.647	ug/L	96

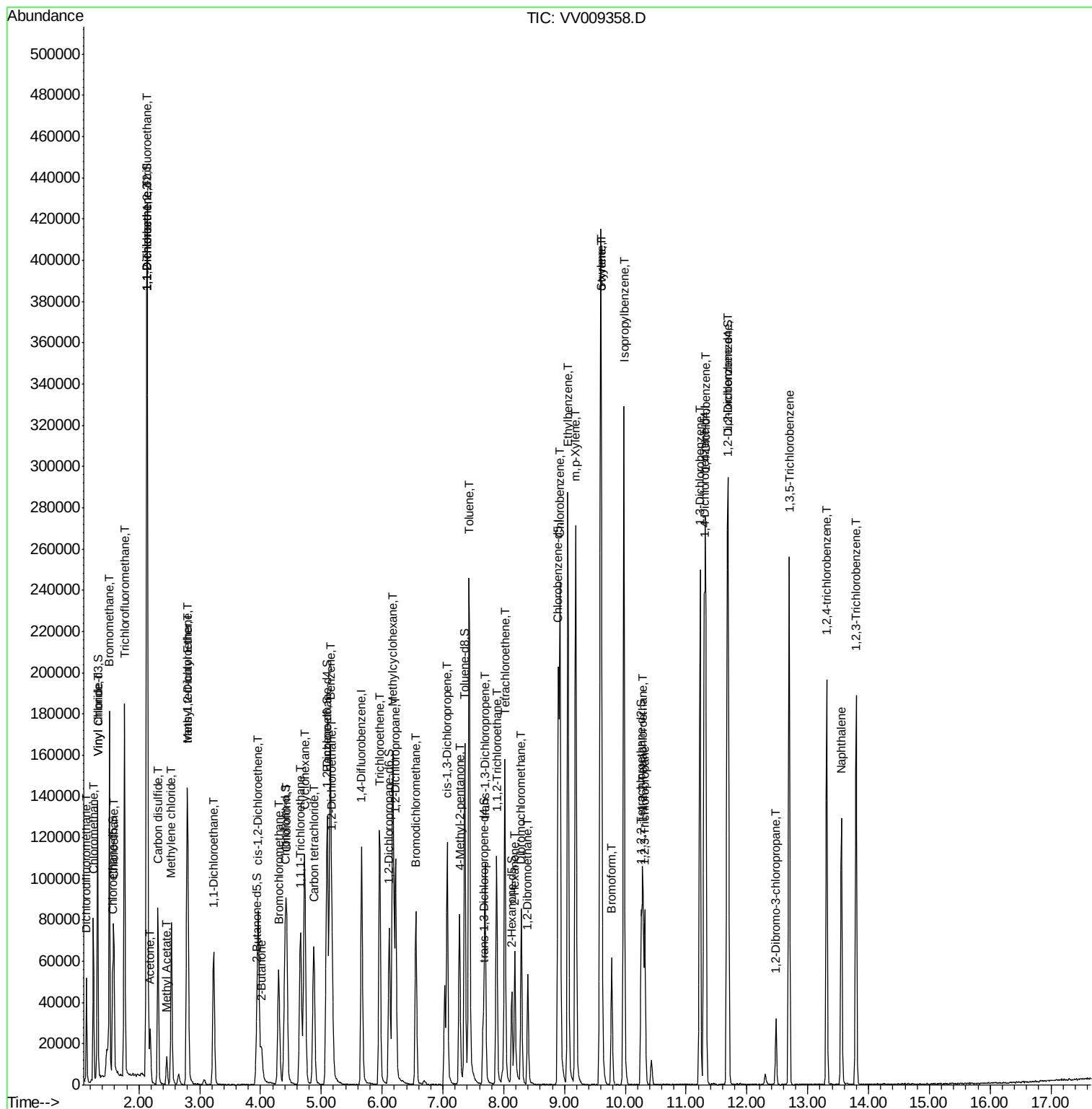
(#) = qualifier out of range (m) = manual integration (+) = signals summed

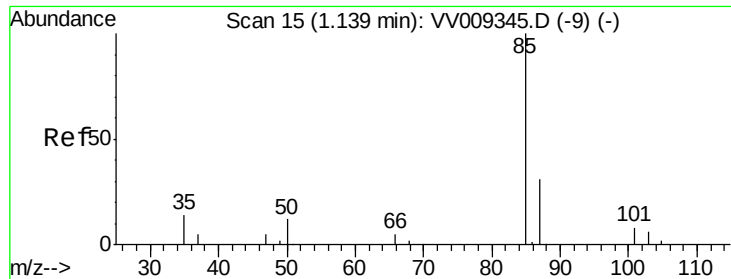
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#2

Dichlorodifluoromethane

Concen: 19.588 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

Instrument :

MSVOA_V

ClientSampled :

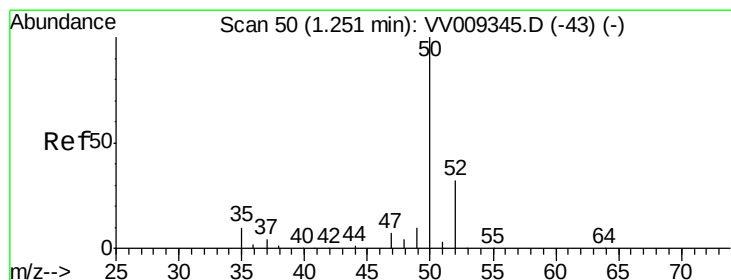
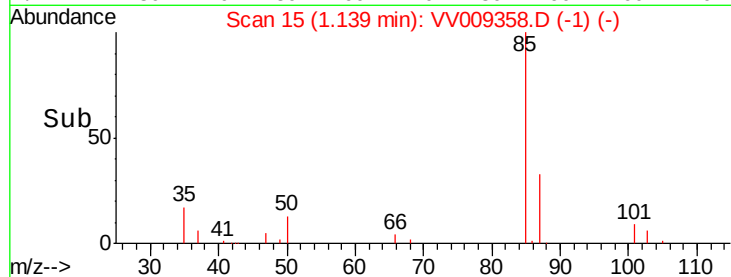
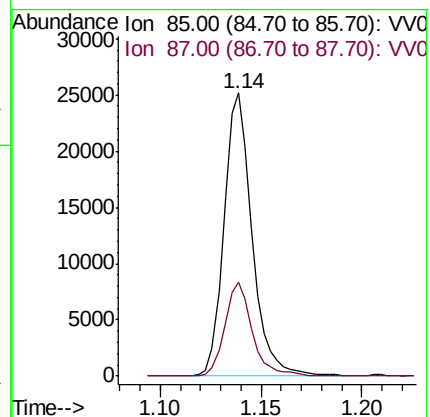
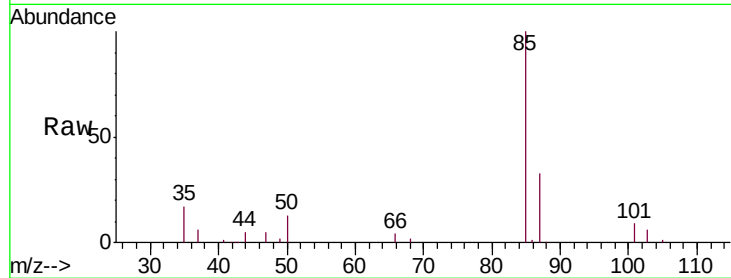
VSTD02580

Tgt Ion: 85 Resp: 24355

Ion Ratio Lower Upper

85 100

87 32.5 24.2 45.0



#3

Chloromethane

Concen: 28.215 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV009358.D

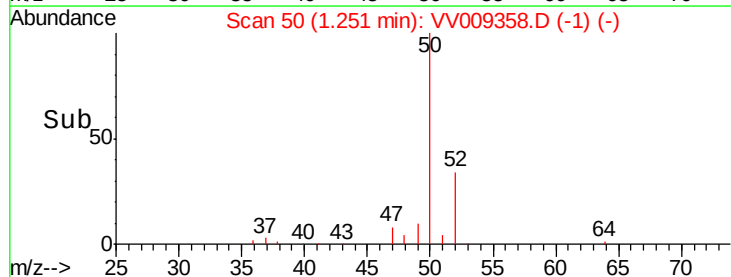
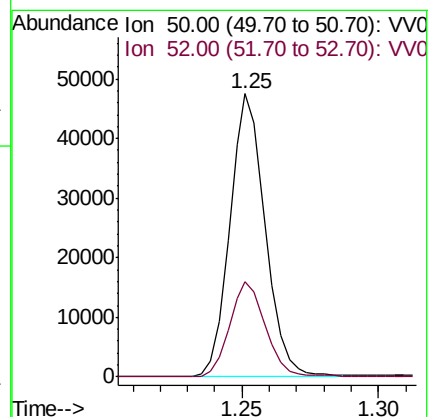
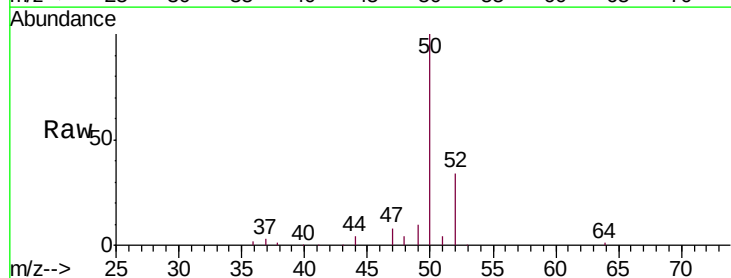
Acq: 25 Feb 2019 19:40

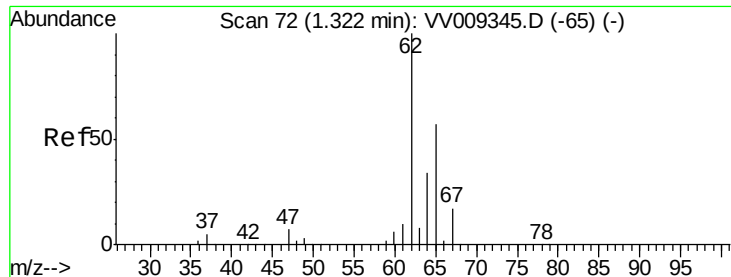
Tgt Ion: 50 Resp: 42860

Ion Ratio Lower Upper

50 100

52 33.5 22.3 41.5





#5

Vinyl chloride

Concen: 31.319 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

Instrument :

MSVOA_V

ClientSampleId :

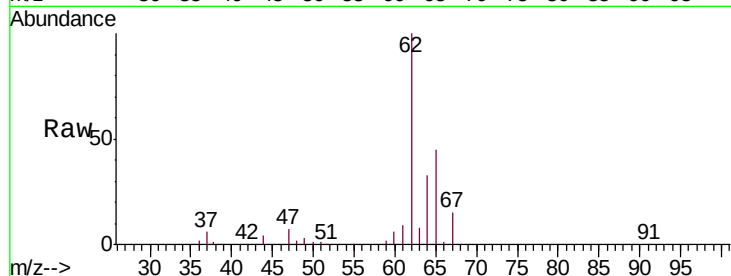
VSTD02580

Tgt Ion: 62 Resp: 53950

Ion Ratio Lower Upper

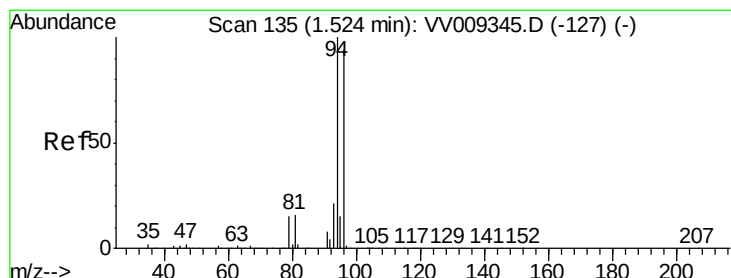
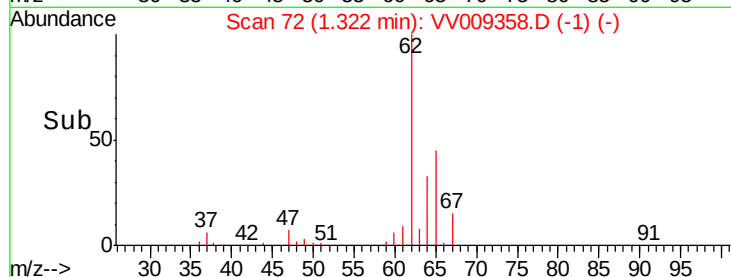
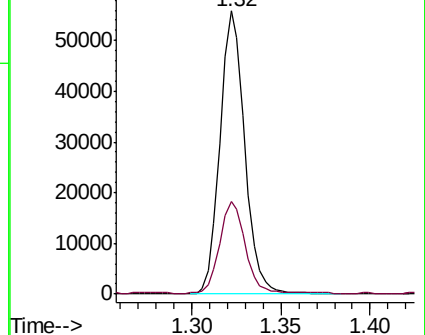
62 100

64 32.6 24.3 45.1



Abundance Ion 62.00 (61.70 to 62.70): VV009345.D (-65) (-)

Ion 64.00 (63.70 to 64.70): VV009345.D (-65) (-)



#6

Bromomethane

Concen: 32.114 ug/L

RT: 1.51 min Scan# 132

Delta R.T. -0.01 min

Lab File: VV009358.D

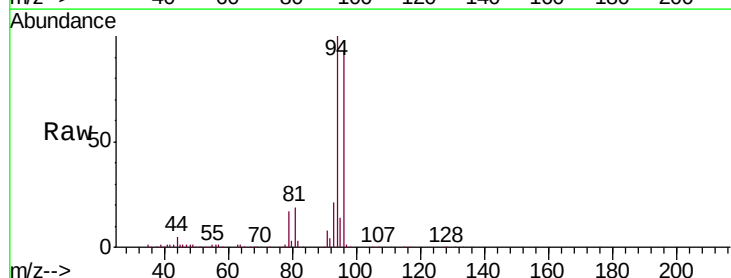
Acq: 25 Feb 2019 19:40

Tgt Ion: 94 Resp: 51480

Ion Ratio Lower Upper

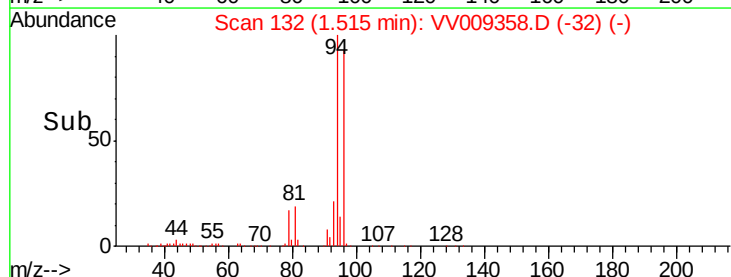
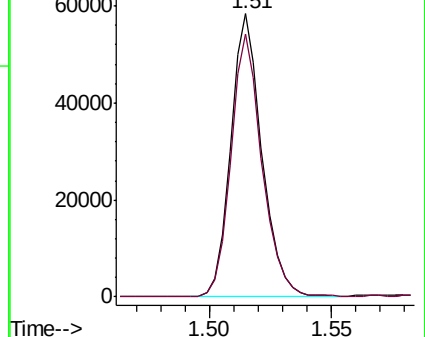
94 100

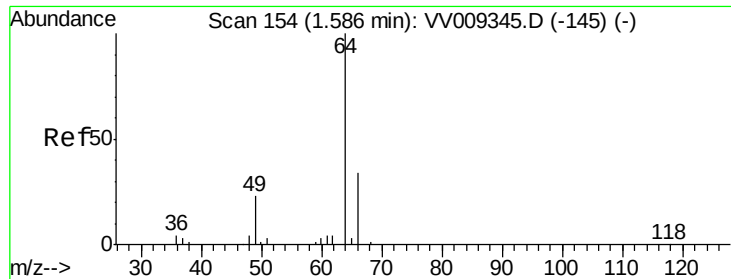
96 92.9 9.4 178.6



Abundance Ion 94.00 (93.70 to 94.70): VV009345.D (-127) (-)

Ion 96.00 (95.70 to 96.70): VV009345.D (-127) (-)





#8

Chloroethane

Concen: 26.035 ug/L

RT: 1.59 min Scan# 155

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

Instrument :

MSVOA_V

ClientSampleId :

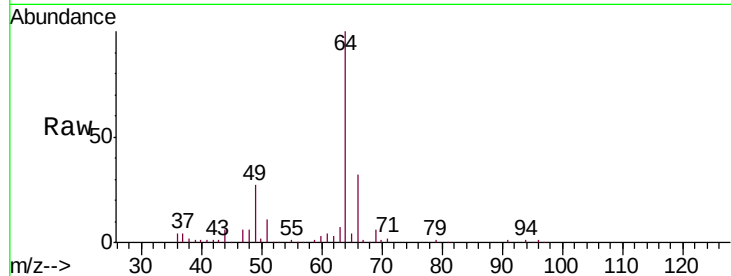
VSTD02580

Tgt Ion: 64 Resp: 37855

Ion Ratio Lower Upper

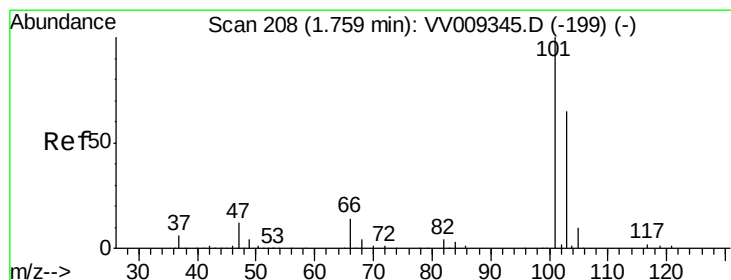
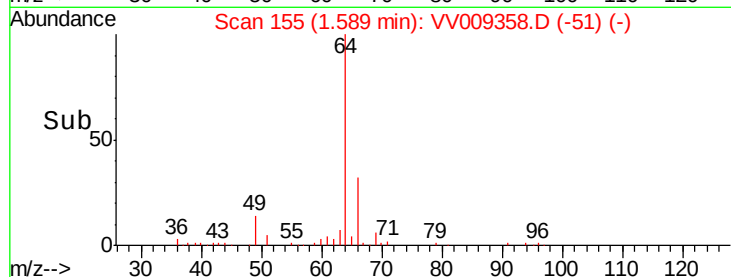
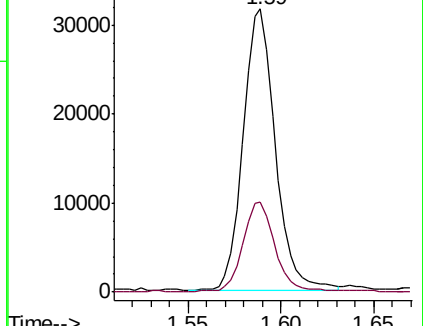
64 100

66 31.8 22.9 42.5



Abundance Ion 64.00 (63.70 to 64.70): VV009345.D (-145) (-)

Ion 66.00 (65.70 to 66.70): VV009345.D (-145) (-)



#9

Trichlorofluoromethane

Concen: 29.891 ug/L

RT: 1.76 min Scan# 209

Delta R.T. 0.00 min

Lab File: VV009358.D

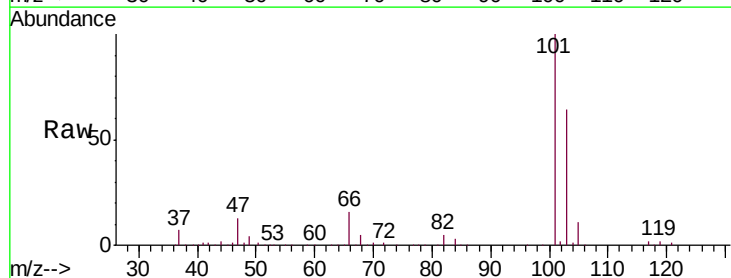
Acq: 25 Feb 2019 19:40

Tgt Ion: 101 Resp: 96937

Ion Ratio Lower Upper

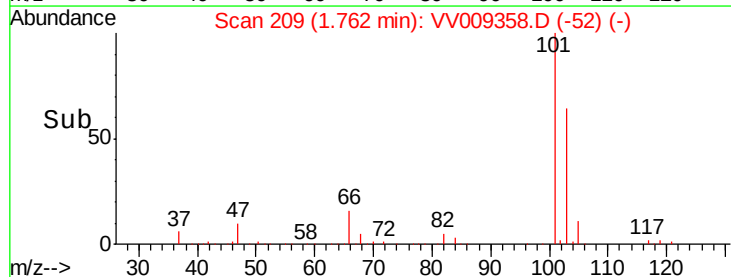
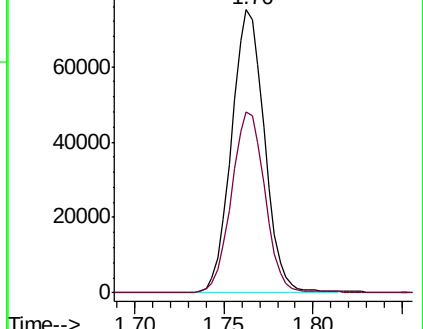
101 100

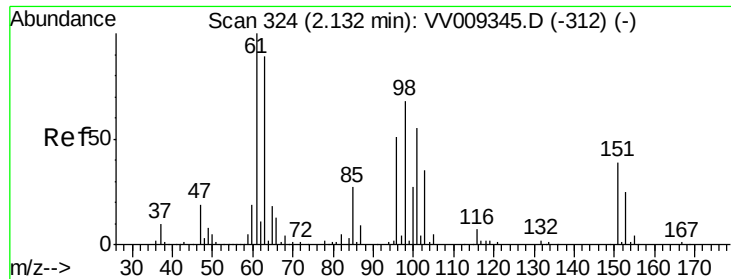
103 64.4 45.4 84.4



Abundance Ion 101.00 (100.70 to 101.70): VV009345.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV009345.D (-199) (-)





#11

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

Concen: 30.761 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

Instrument :

MSVOA_V

ClientSampleId :

VSTD02580

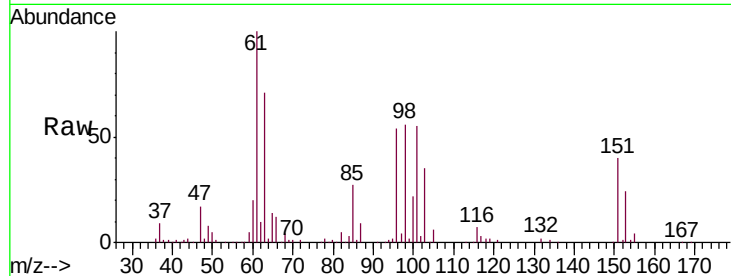
Tgt Ion:101 Resp: 57049

Ion Ratio Lower Upper

101 100

85 49.4 39.1 58.7

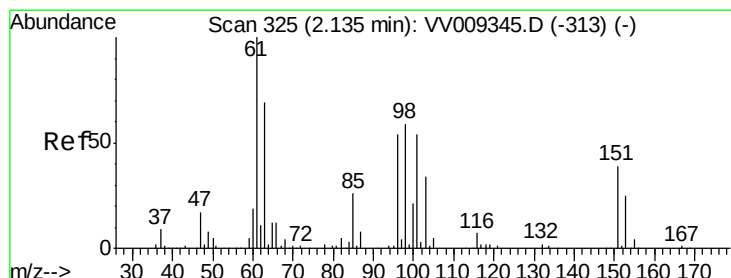
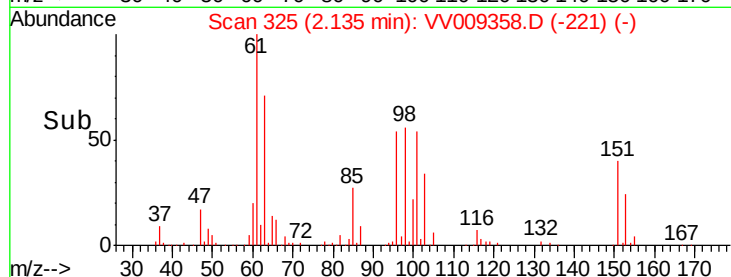
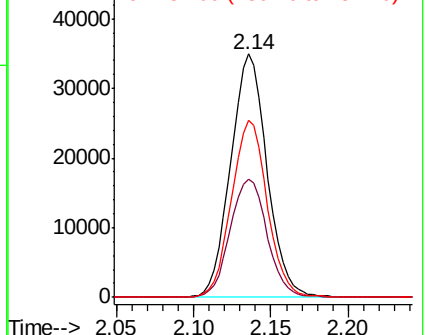
151 71.4 58.5 87.7



Abundance Ion 101.00 (100.70 to 101.70): VV009345.D (-312) (-)

Ion 85.00 (84.70 to 85.70): VV009345.D (-312) (-)

Ion 151.00 (150.70 to 151.70): VV009345.D (-312) (-)



#12

1,1-Dichloroethene

Concen: 31.645 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

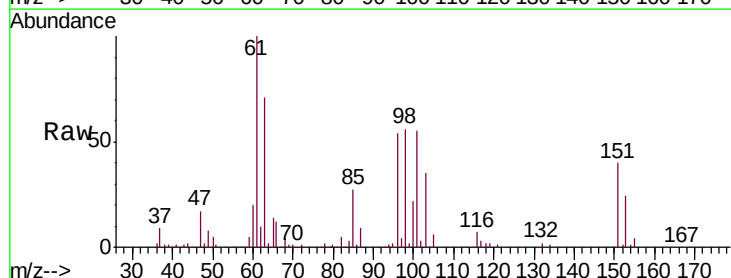
Tgt Ion: 96 Resp: 49459

Ion Ratio Lower Upper

96 100

61 186.3 123.3 228.9

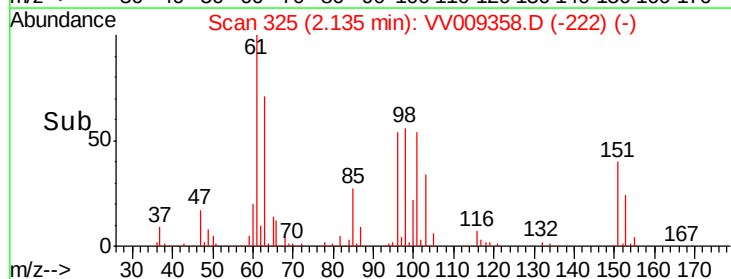
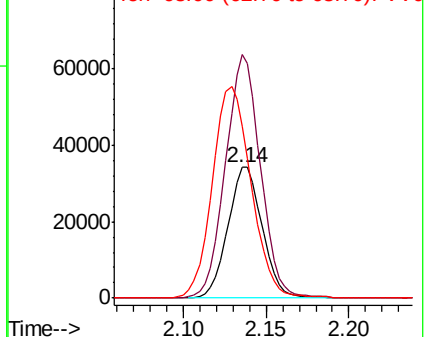
63 131.7 88.4 164.2

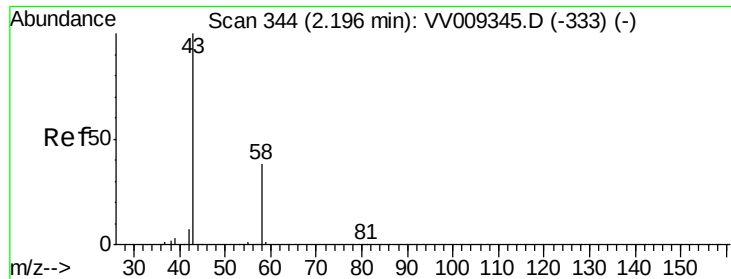


Abundance Ion 96.00 (95.70 to 96.70): VV009345.D (-313) (-)

Ion 61.00 (60.70 to 61.70): VV009345.D (-313) (-)

Ion 63.00 (62.70 to 63.70): VV009345.D (-313) (-)





#13

Acetone

Concen: 43.394 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.01 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

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MSVOA_V

ClientSampleId :

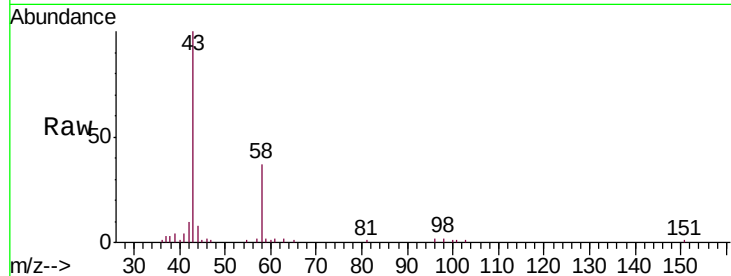
VSTD02580

Tgt Ion: 43 Resp: 21039

Ion Ratio Lower Upper

43 100

58 37.1 0.0 72.0



Abundance Ion 43.00 (42.70 to 43.70): VV009345.D (-333) (-)

Ion 58.00 (57.70 to 58.70): VV009345.D (-333) (-)

2.19

15000

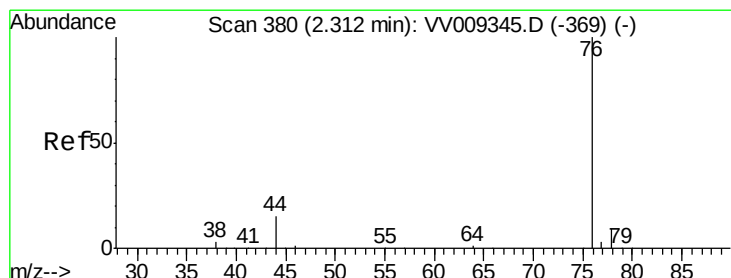
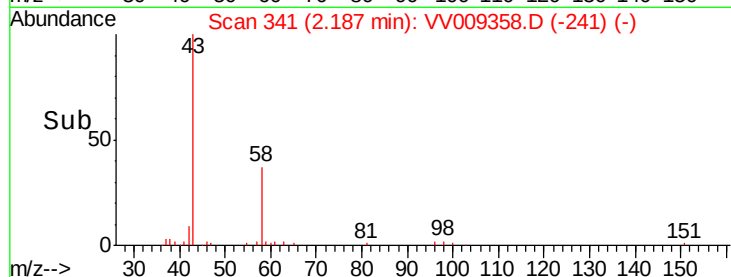
10000

5000

0

Time-->

2.15 2.20 2.25



#14

Carbon disulfide

Concen: 22.424 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV009358.D

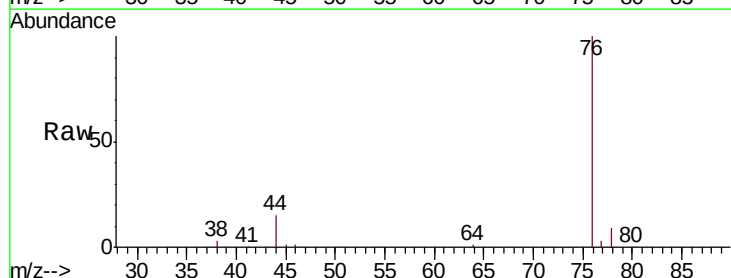
Acq: 25 Feb 2019 19:40

Tgt Ion: 76 Resp: 93783

Ion Ratio Lower Upper

76 100

78 8.9 6.9 10.3



Abundance Ion 76.00 (75.70 to 76.70): VV009345.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV009345.D (-369) (-)

2.32

60000

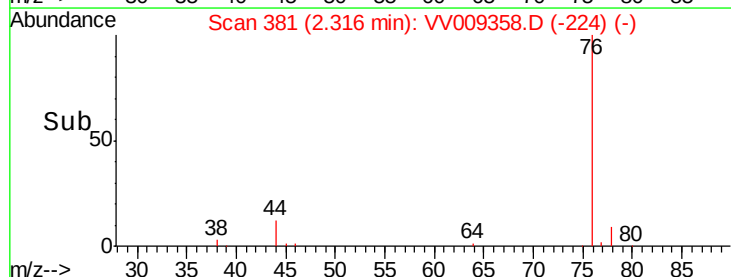
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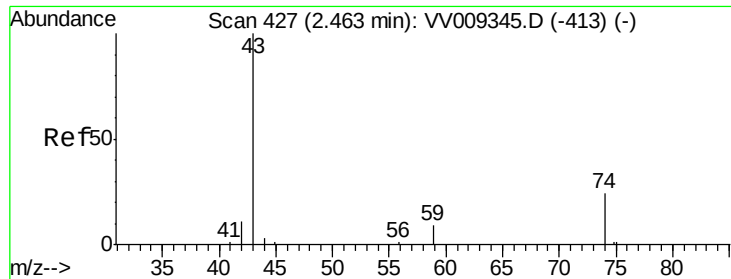
20000

0

Time-->

2.25 2.30 2.35 2.40





#15

Methyl Acetate

Concen: 20.317 ug/L

RT: 2.46 min Scan# 425

Delta R.T. -0.01 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

Instrument :

MSVOA_V

ClientSampleId :

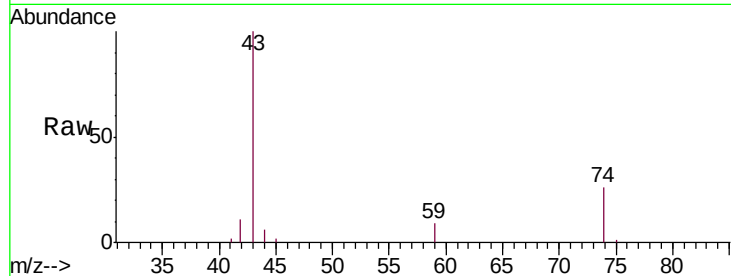
VSTD02580

Tgt Ion: 43 Resp: 14363

Ion Ratio Lower Upper

43 100

74 26.3 21.8 32.6



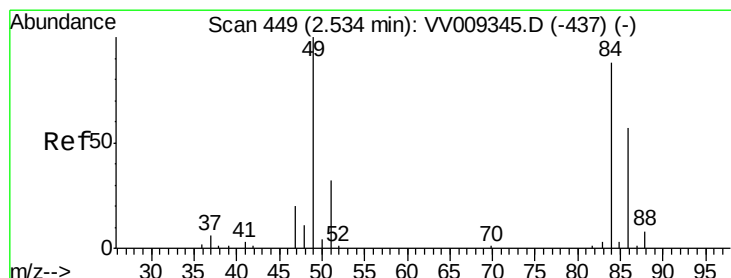
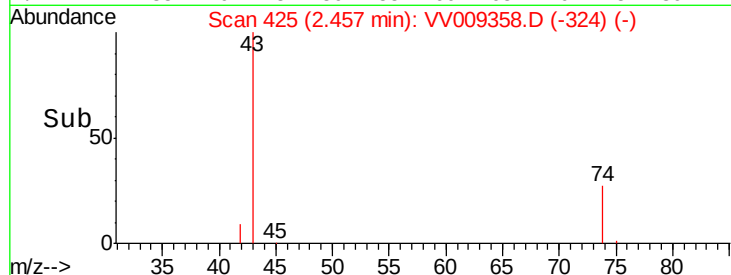
Abundance Ion 43.00 (42.70 to 43.70): VV009345.D (-413) (-)

Ion 74.00 (73.70 to 74.70): VV009345.D (-413) (-)

2.46

Time-->

2.40 2.45 2.50



#16

Methylene chloride

Concen: 20.121 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

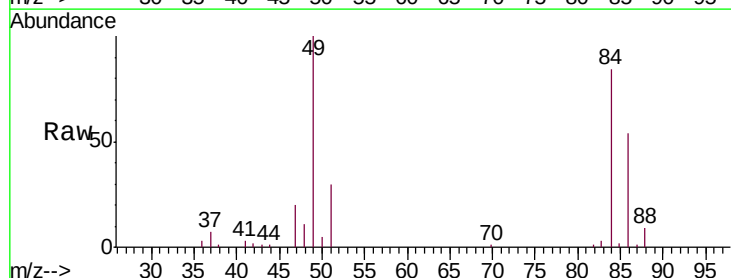
Tgt Ion: 84 Resp: 32423

Ion Ratio Lower Upper

84 100

49 119.4 78.7 146.1

86 64.0 44.0 81.6



Abundance Ion 84.00 (83.70 to 84.70): VV009345.D (-437) (-)

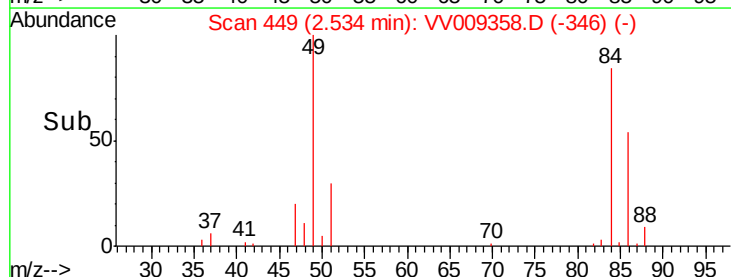
Ion 49.00 (48.70 to 49.70): VV009345.D (-437) (-)

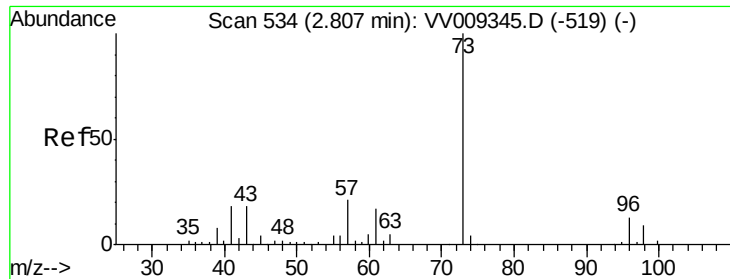
Ion 86.00 (85.70 to 86.70): VV009345.D (-437) (-)

2.53

Time-->

2.50 2.55 2.60

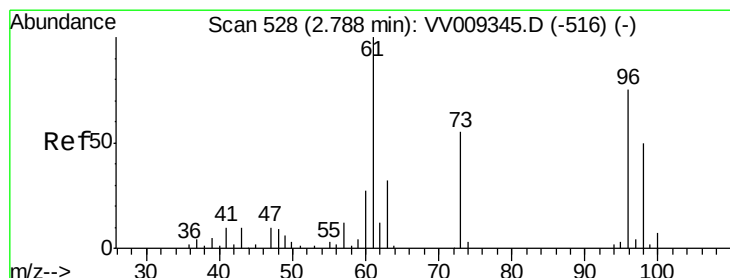
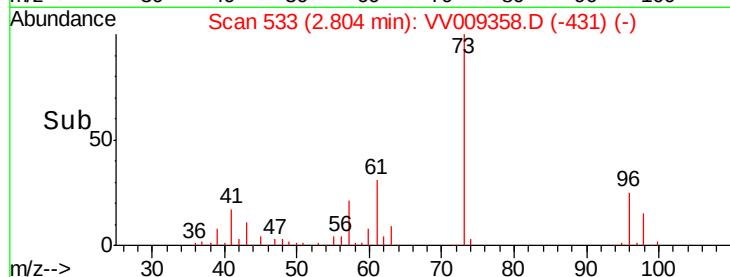
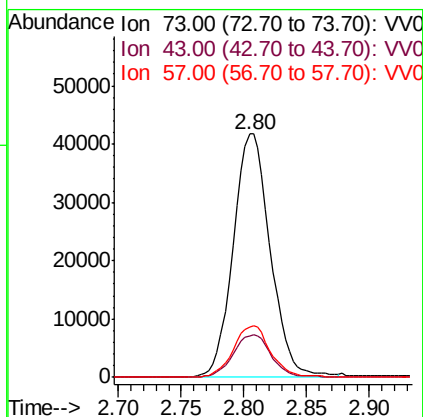
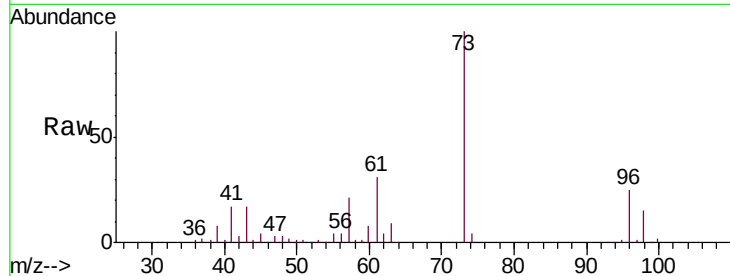




#17
Methyl tert-butyl Ether
Concen: 24.811 ug/L
RT: 2.80 min Scan# 533
Delta R.T. -0.00 min
Lab File: VV009358.D
Acq: 25 Feb 2019 19:40

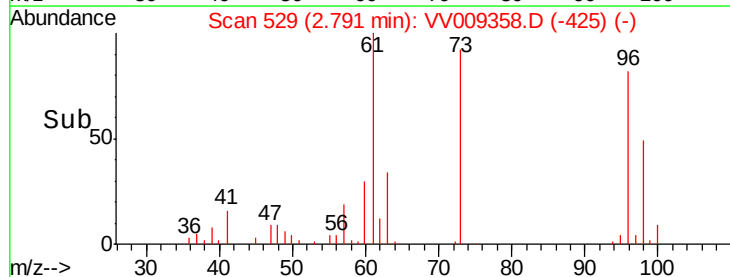
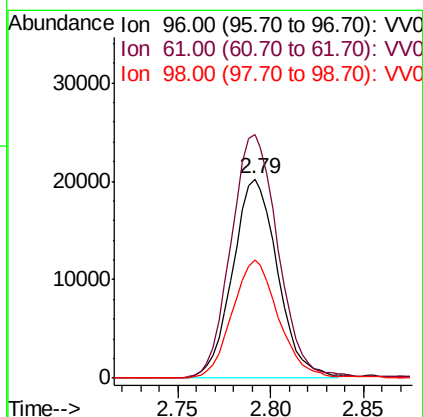
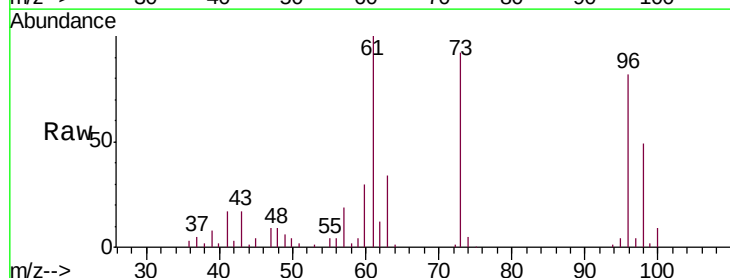
Instrument :
MSVOA_V
ClientSampled :
VSTD02580

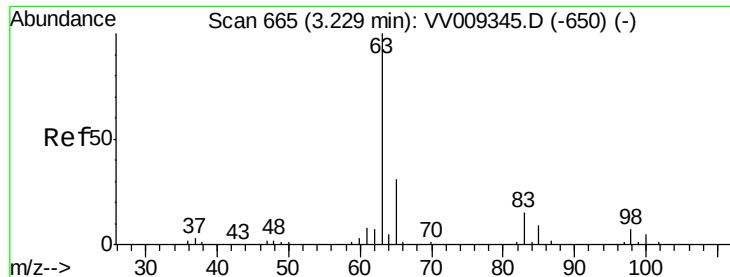
Tgt Ion: 73 Resp: 85893
Ion Ratio Lower Upper
73 100
43 17.9 14.0 21.0
57 21.1 17.0 25.4



#18
trans-1,2-Dichloroethene
Concen: 24.218 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.00 min
Lab File: VV009358.D
Acq: 25 Feb 2019 19:40

Tgt Ion: 96 Resp: 34099
Ion Ratio Lower Upper
96 100
61 122.4 88.8 165.0
98 59.4 43.0 79.8

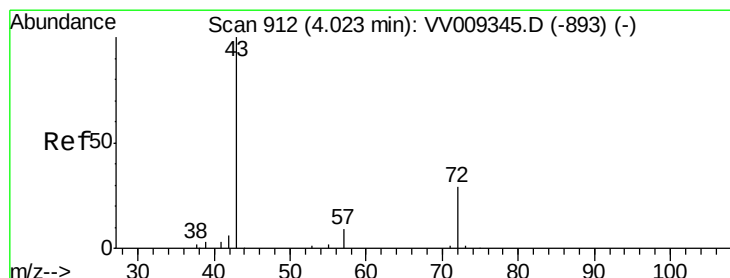
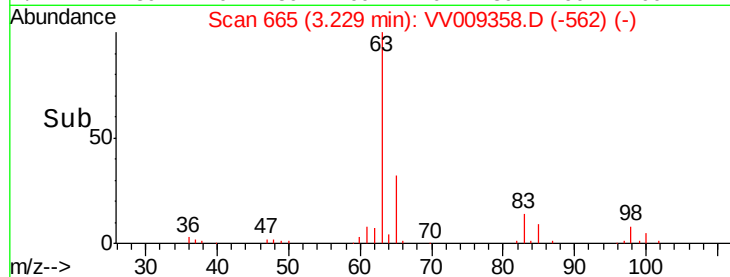
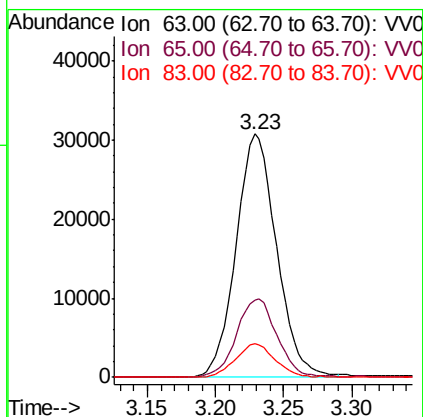
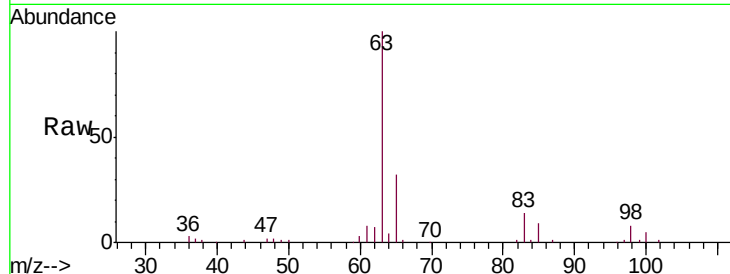




#19
 1,1-Dichloroethane
 Concen: 27.157 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV009358.D
 Acq: 25 Feb 2019 19:40

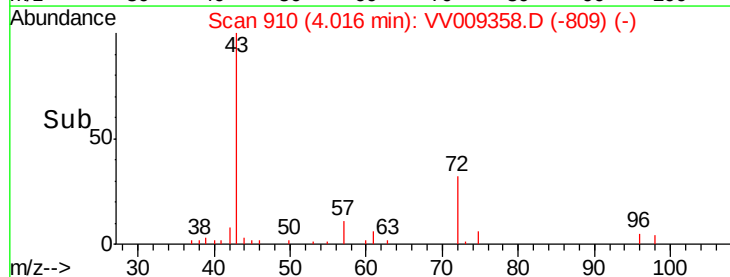
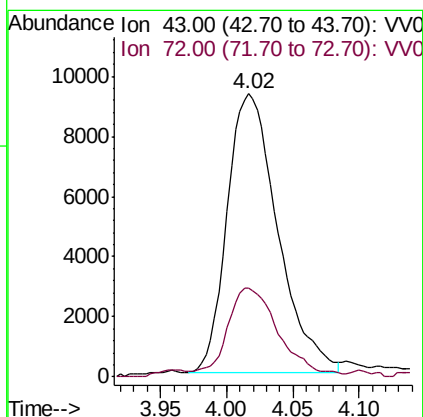
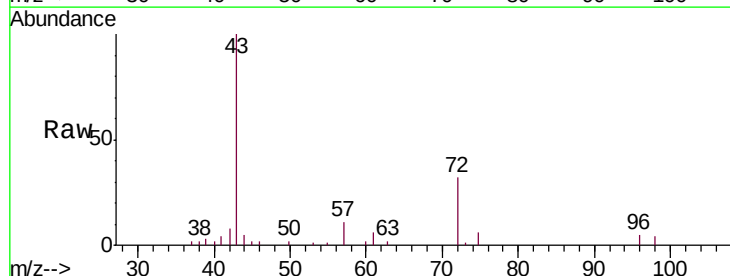
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02580

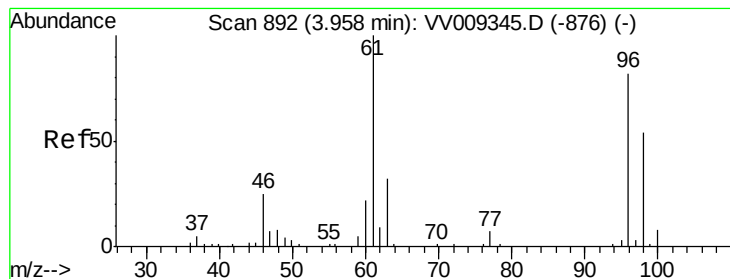
Tgt Ion: 63 Resp: 63511
 Ion Ratio Lower Upper
 63 100
 65 31.7 21.6 40.2
 83 13.7 10.1 18.9



#21
 2-Butanone
 Concen: 44.112 ug/L
 RT: 4.02 min Scan# 910
 Delta R.T. -0.01 min
 Lab File: VV009358.D
 Acq: 25 Feb 2019 19:40

Tgt Ion: 43 Resp: 24502
 Ion Ratio Lower Upper
 43 100
 72 32.4 15.4 46.2





#22

cis-1,2-Dichloroethene

Concen: 28.168 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

Instrument :

MSVOA_V

ClientSampled :

VSTD02580

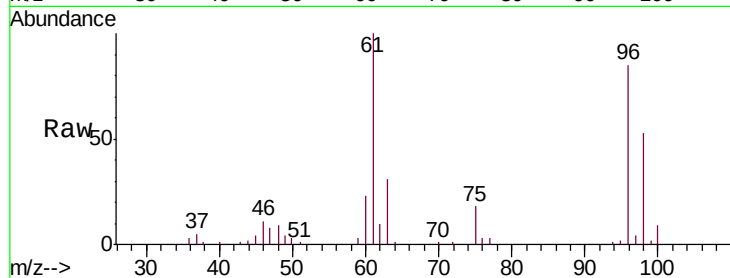
Tgt Ion: 96 Resp: 43324

Ion Ratio Lower Upper

96 100

61 118.1 86.2 160.0

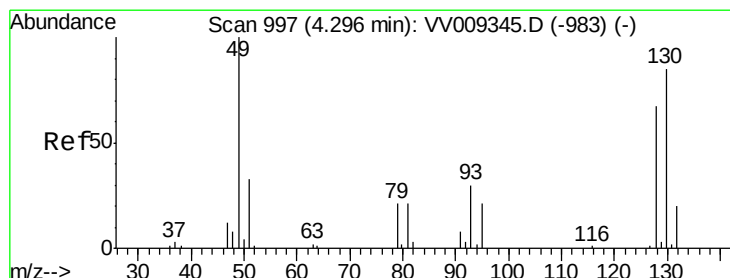
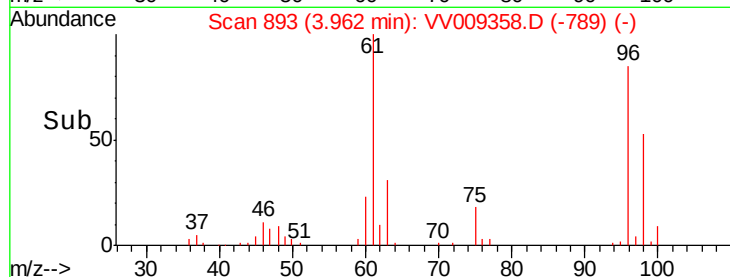
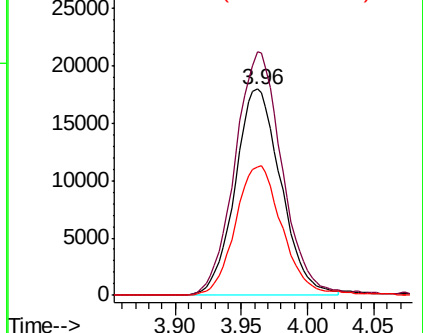
98 62.5 46.8 87.0



Abundance Ion 96.00 (95.70 to 96.70): VV009345.D (-876) (-)

Ion 61.00 (60.70 to 61.70): VV009345.D (-876) (-)

Ion 98.00 (97.70 to 98.70): VV009345.D (-876) (-)



#23

Bromochloromethane

Concen: 28.145 ug/L

RT: 4.30 min Scan# 998

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

Tgt Ion: 128 Resp: 19811

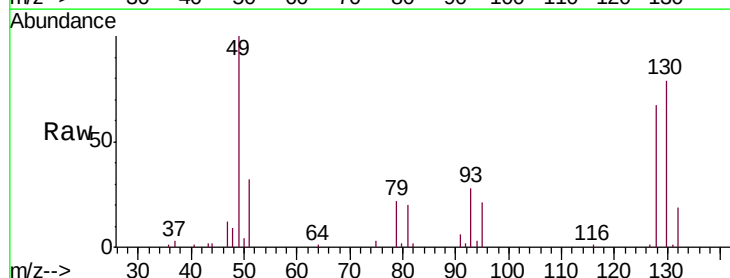
Ion Ratio Lower Upper

128 100

49 149.8 103.0 191.4

130 118.4 93.3 173.3

51 48.6 36.5 54.7

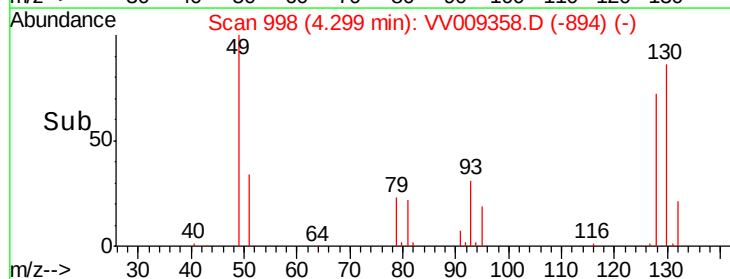
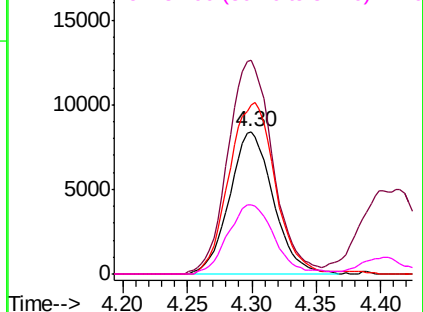


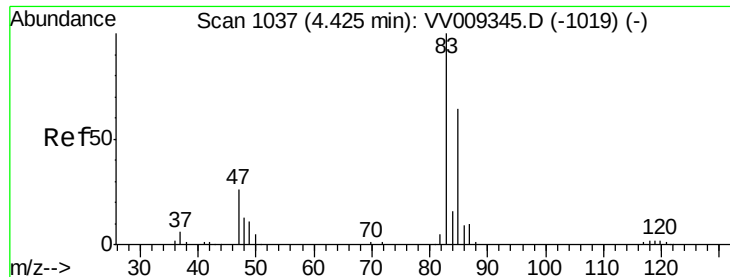
Abundance Ion 128.00 (127.70 to 128.70): VV009345.D (-983) (-)

Ion 49.00 (48.70 to 49.70): VV009345.D (-983) (-)

Ion 130.00 (129.70 to 130.70): VV009345.D (-983) (-)

Ion 51.00 (50.70 to 51.70): VV009345.D (-983) (-)

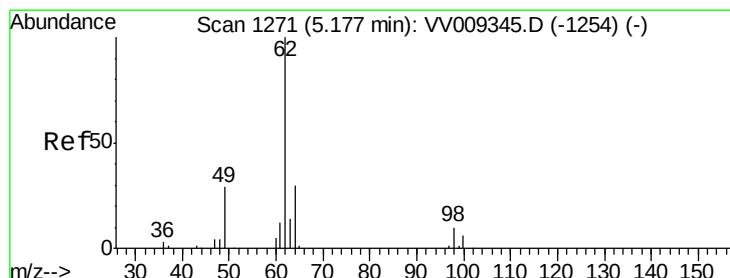
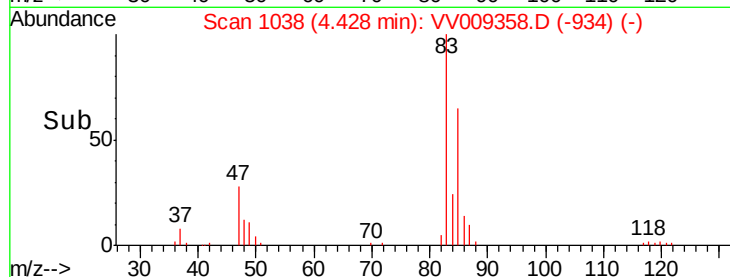
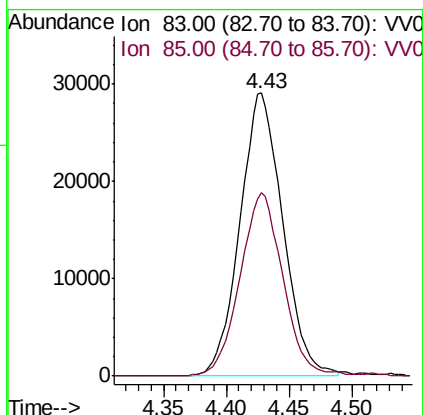
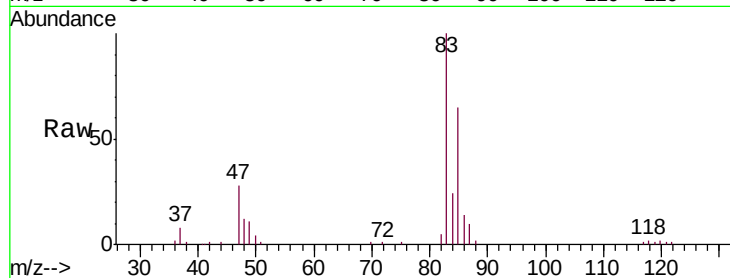




#25
Chloroform
Concen: 27.794 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV009358.D
Acq: 25 Feb 2019 19:40

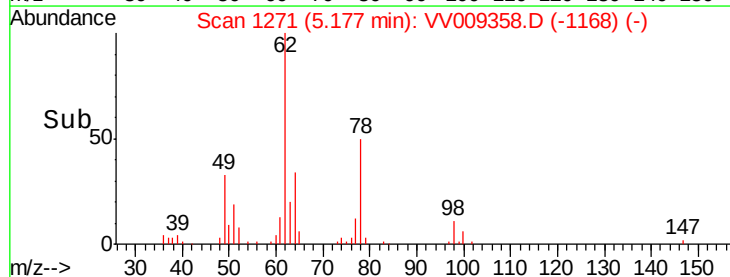
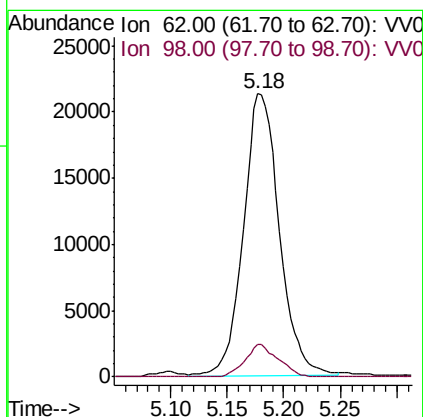
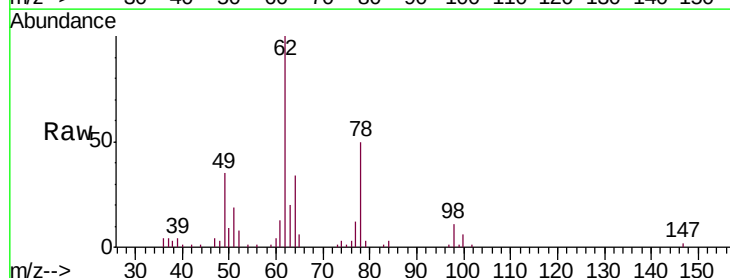
Instrument :
MSVOA_V
ClientSampleId :
VSTD02580

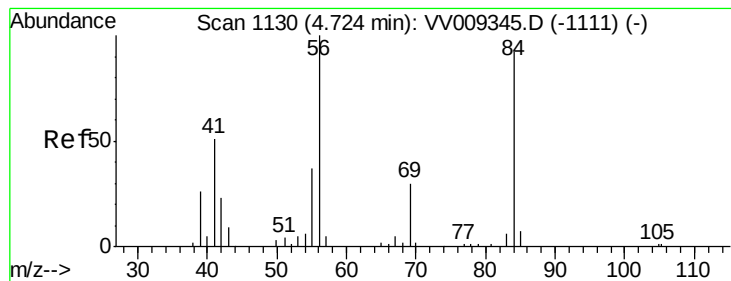
Tgt Ion: 83 Resp: 69167
Ion Ratio Lower Upper
83 100
85 64.3 47.5 88.3



#27
1,2-Dichloroethane
Concen: 27.776 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV009358.D
Acq: 25 Feb 2019 19:40

Tgt Ion: 62 Resp: 46806
Ion Ratio Lower Upper
62 100
98 11.4 8.5 12.7





#30

Cyclohexane

Concen: 24.690 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

Instrument :

MSVOA_V

ClientSampleId :

VSTD02580

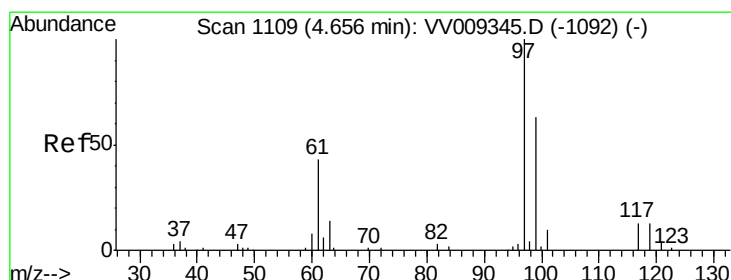
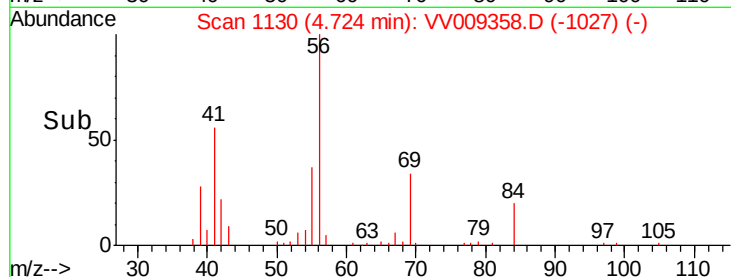
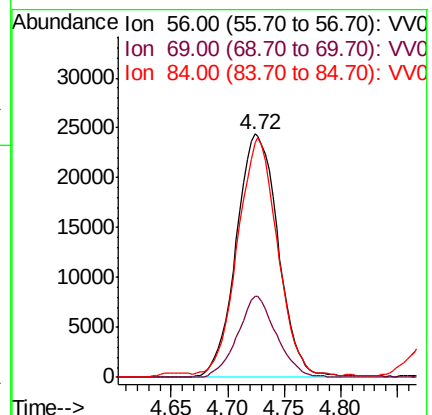
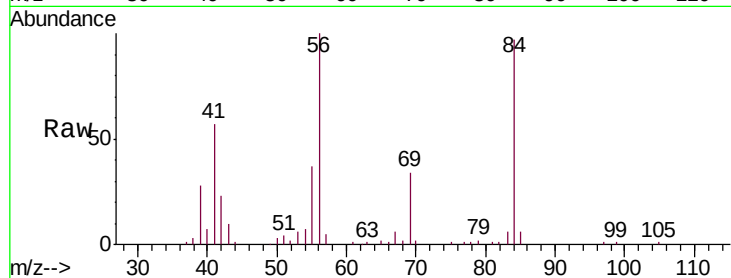
Tgt Ion: 56 Resp: 62921

Ion Ratio Lower Upper

56 100

69 30.6 25.7 38.5

84 95.0 77.2 115.8



#31

1,1,1-Trichloroethane

Concen: 23.577 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

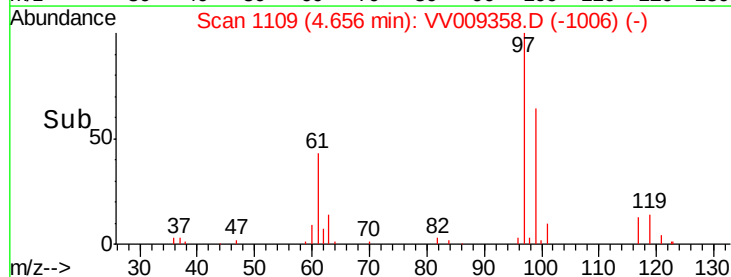
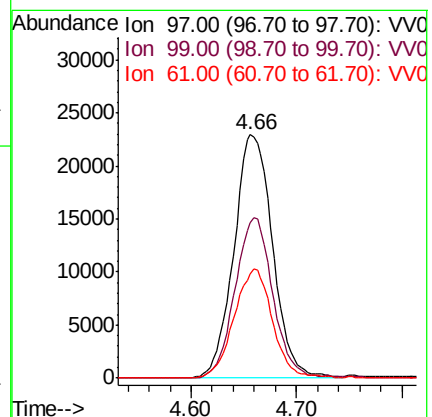
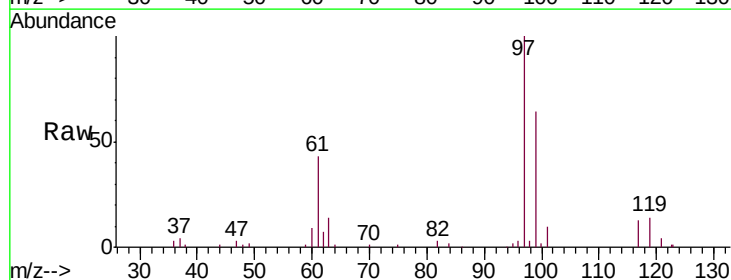
Tgt Ion: 97 Resp: 58537

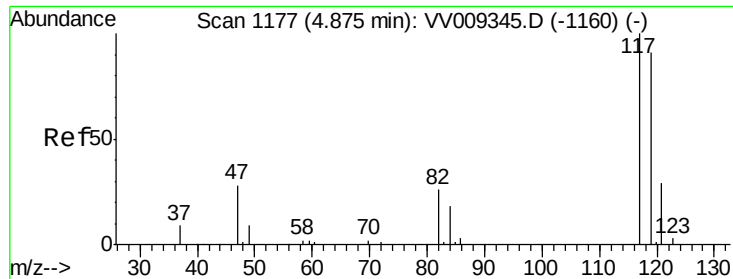
Ion Ratio Lower Upper

97 100

99 63.8 51.7 77.5

61 44.1 34.0 51.0





#32

Carbon tetrachloride

Concen: 22.817 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

Instrument :

MSVOA_V

ClientSampleId :

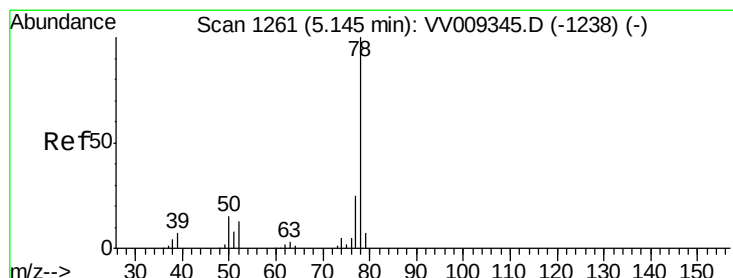
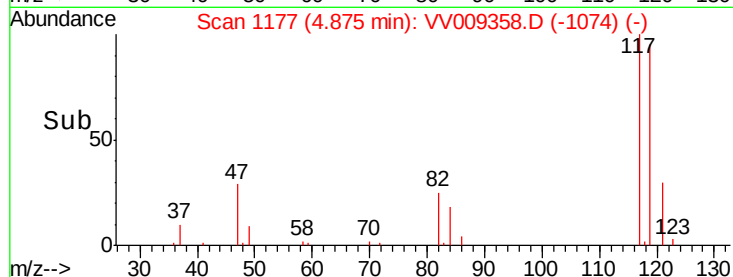
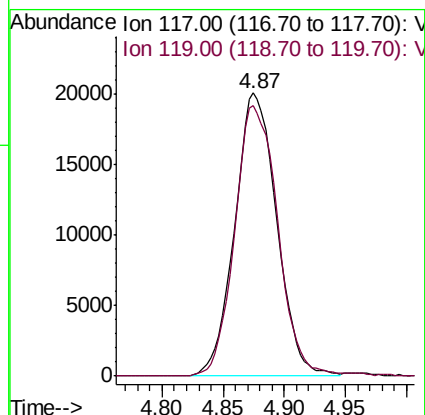
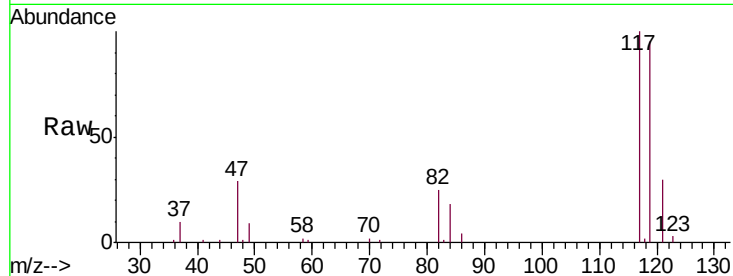
VSTD02580

Tgt Ion:117 Resp: 47872

Ion Ratio Lower Upper

117 100

119 97.9 76.7 115.1



#34

Benzene

Concen: 26.674 ug/L

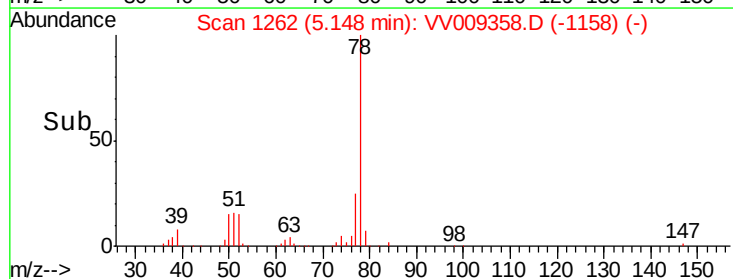
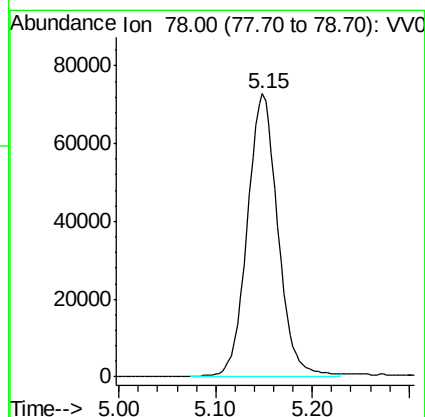
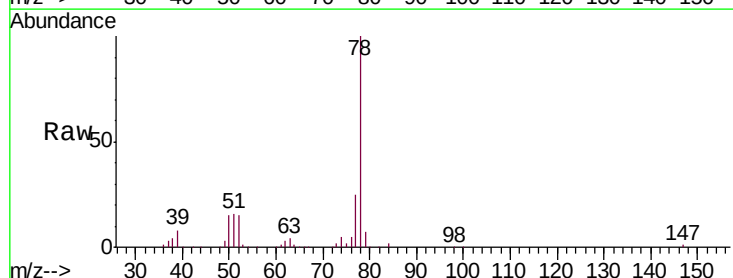
RT: 5.15 min Scan# 1262

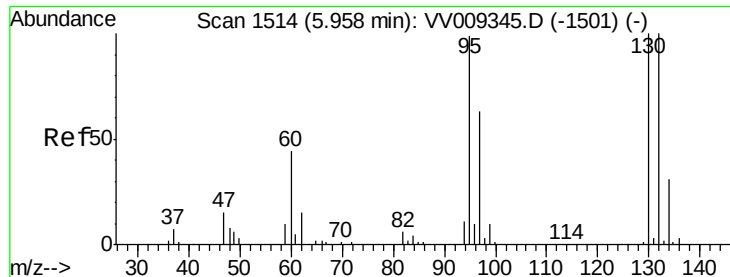
Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

Tgt Ion: 78 Resp: 160348





#35

Trichloroethene

Concen: 24.777 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

Instrument :

MSVOA_V

ClientSampleId :

VSTD02580

Tgt Ion: 95 Resp: 41428

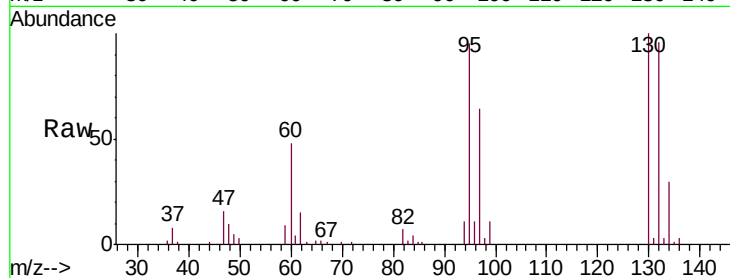
Ion Ratio Lower Upper

95 100

97 64.4 45.0 83.6

132 100.3 68.7 127.5

130 101.5 72.2 134.0

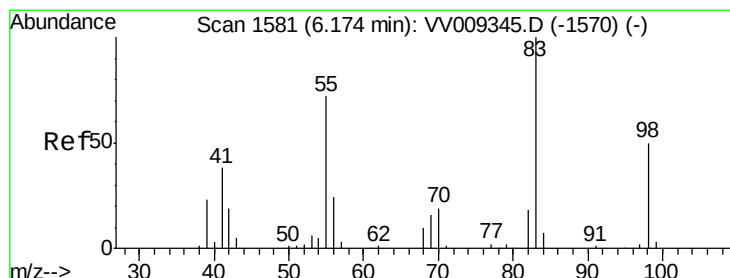
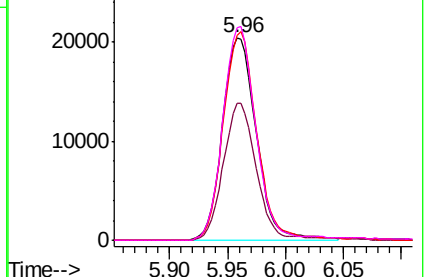
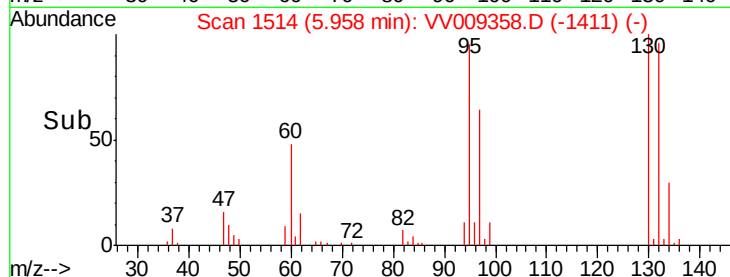


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#36

Methylcyclohexane

Concen: 24.986 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

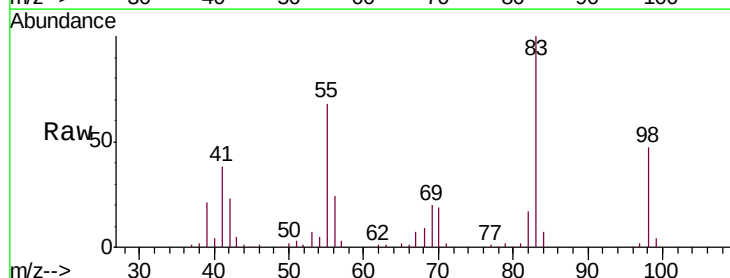
Tgt Ion: 83 Resp: 73076

Ion Ratio Lower Upper

83 100

55 69.0 55.8 83.6

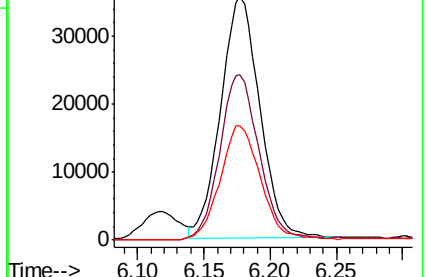
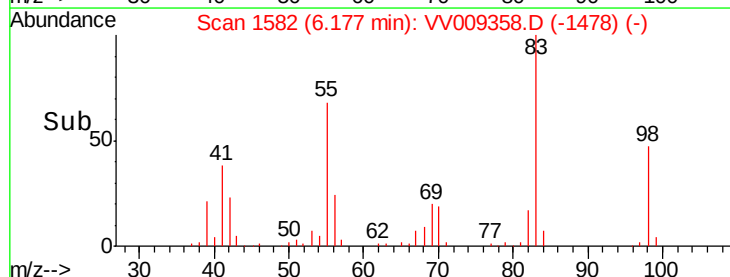
98 48.6 40.3 60.5

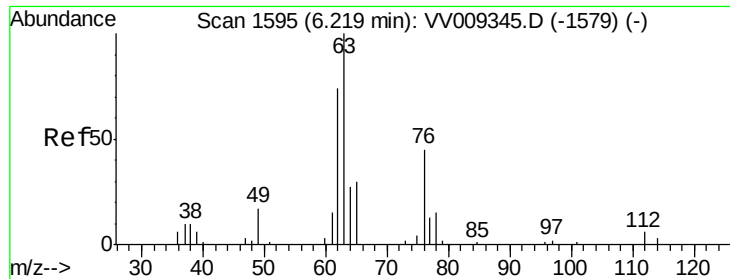


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

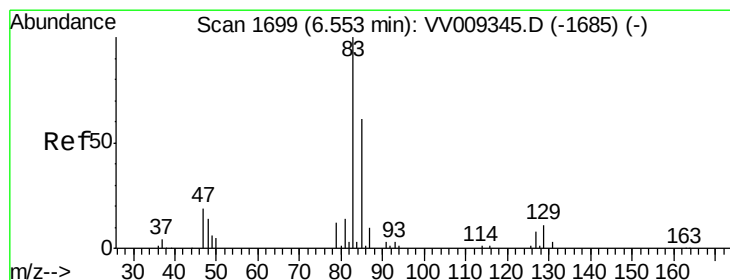
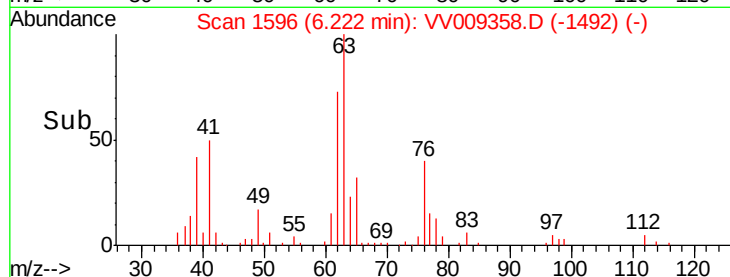
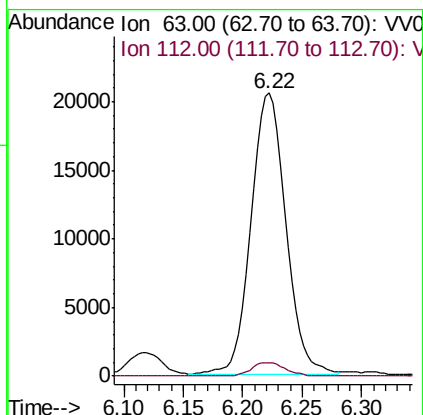
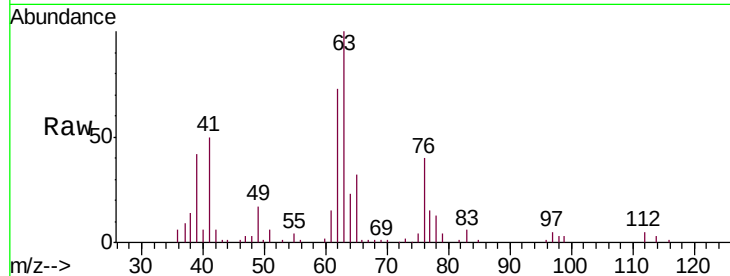




#40
 1,2-Dichloropropane
 Concen: 28.525 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VV009358.D
 Acq: 25 Feb 2019 19:40

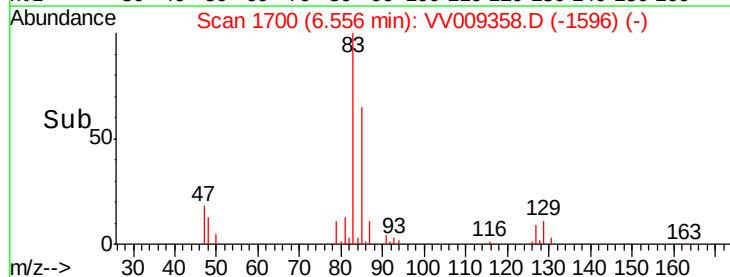
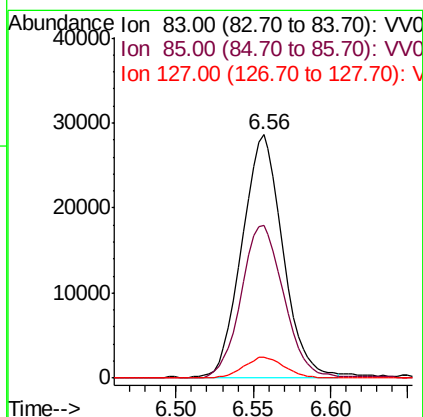
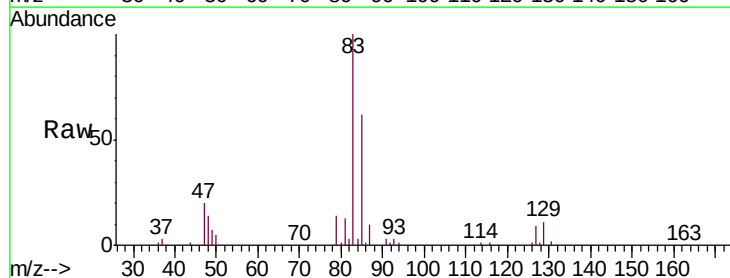
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02580

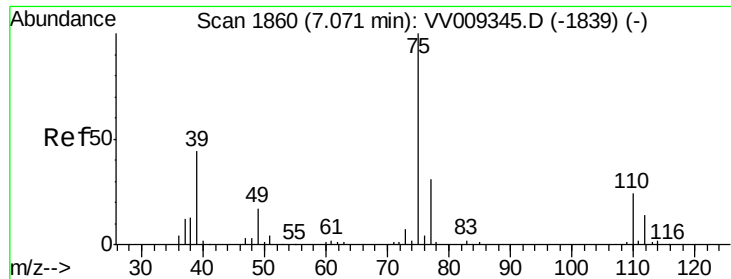
Tgt Ion: 63 Resp: 41619
 Ion Ratio Lower Upper
 63 100
 112 4.6 3.8 5.8



#41
 Bromodichloromethane
 Concen: 25.177 ug/L
 RT: 6.56 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VV009358.D
 Acq: 25 Feb 2019 19:40

Tgt Ion: 83 Resp: 52314
 Ion Ratio Lower Upper
 83 100
 85 62.5 44.9 83.5
 127 8.6 6.3 9.5



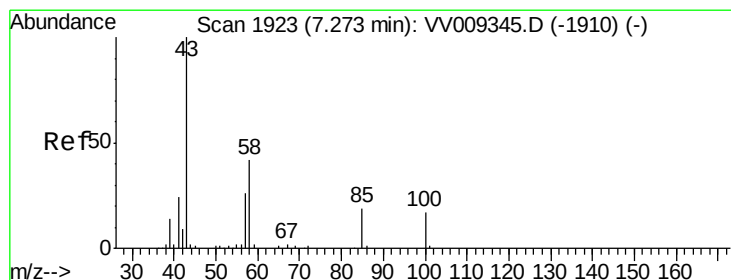
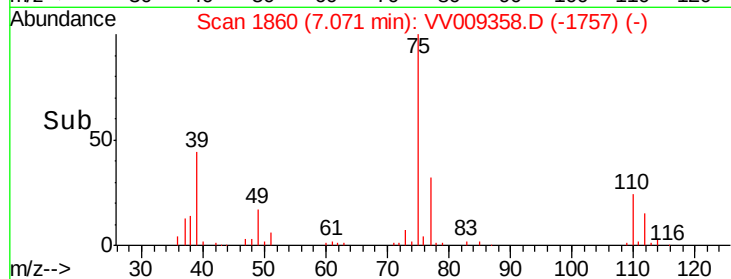
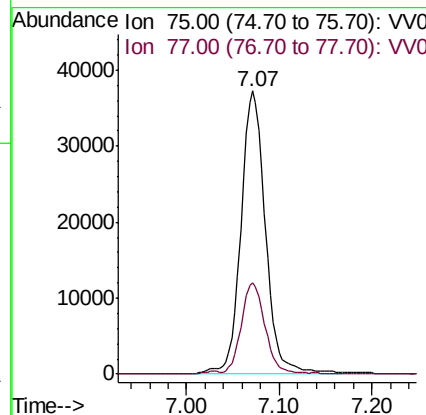
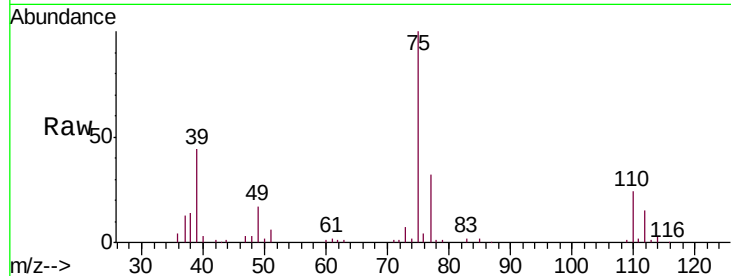


#42

cis-1,3-Dichloropropene
 Concen: 27.690 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV009358.D
 Acq: 25 Feb 2019 19:40

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02580

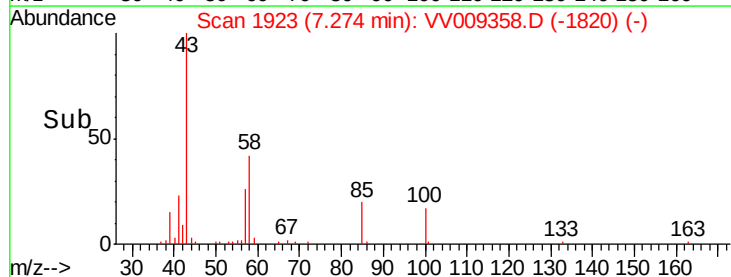
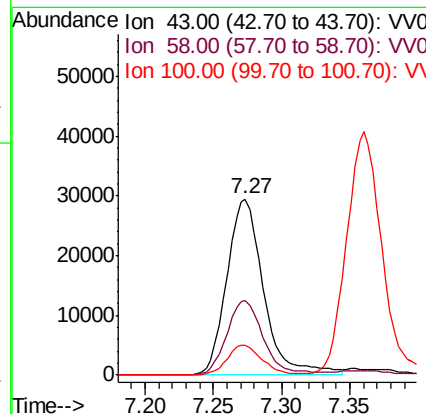
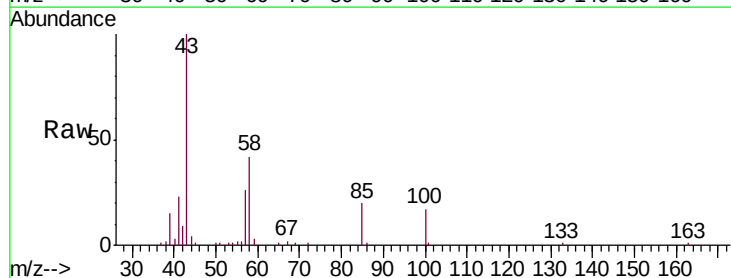
Tgt Ion: 75 Resp: 68562
 Ion Ratio Lower Upper
 75 100
 77 32.3 22.0 40.8

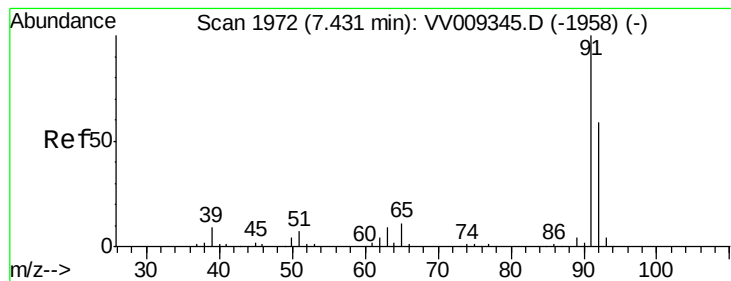


#43

4-Methyl-2-pentanone
 Concen: 45.232 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VV009358.D
 Acq: 25 Feb 2019 19:40

Tgt Ion: 43 Resp: 55398
 Ion Ratio Lower Upper
 43 100
 58 41.1 34.2 51.4
 100 16.4 15.1 22.7





#44

Toluene

Concen: 27.966 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

Instrument :

MSVOA_V

ClientSampleId :

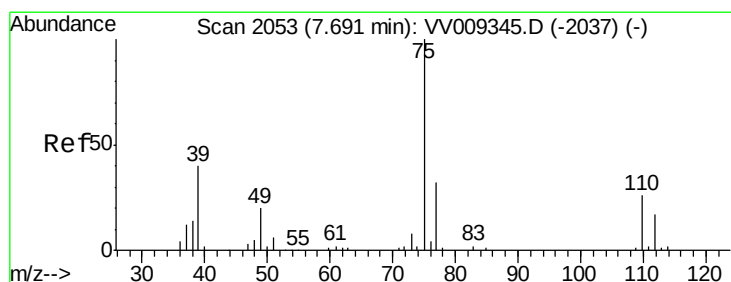
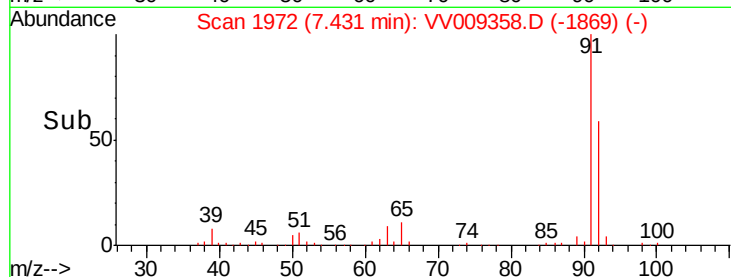
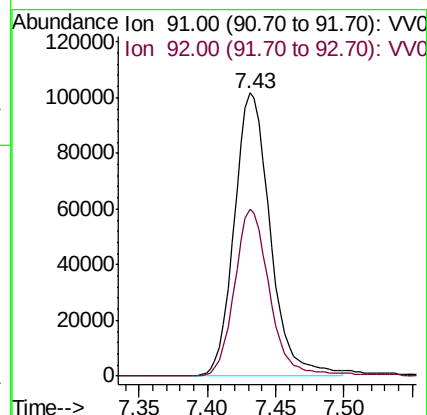
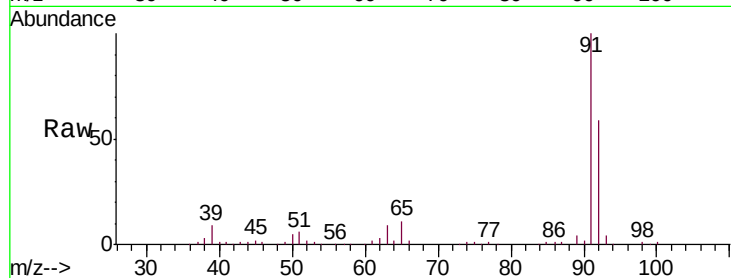
VSTD02580

Tgt Ion: 91 Resp: 186452

Ion Ratio Lower Upper

91 100

92 59.0 40.5 75.3



#45

trans-1,3-Dichloropropene

Concen: 26.291 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV009358.D

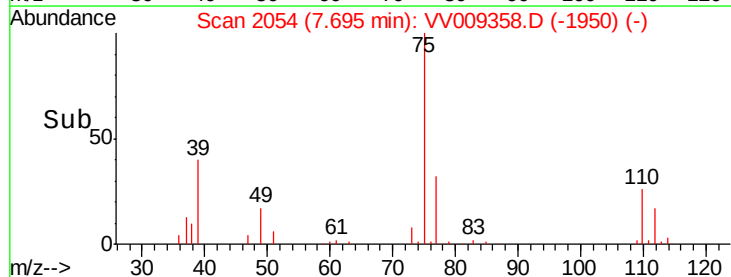
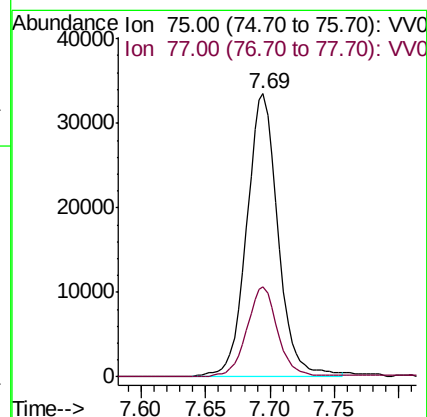
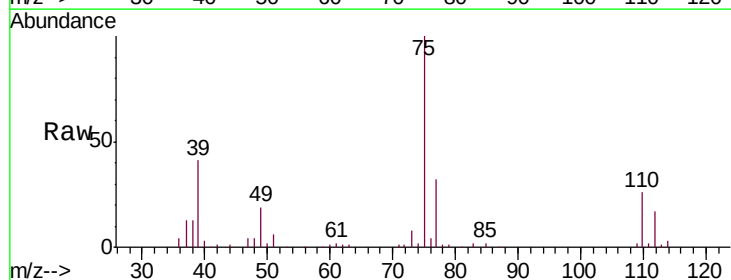
Acq: 25 Feb 2019 19:40

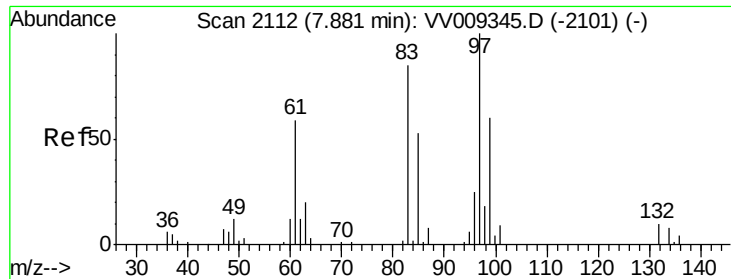
Tgt Ion: 75 Resp: 57004

Ion Ratio Lower Upper

75 100

77 32.0 22.6 42.0

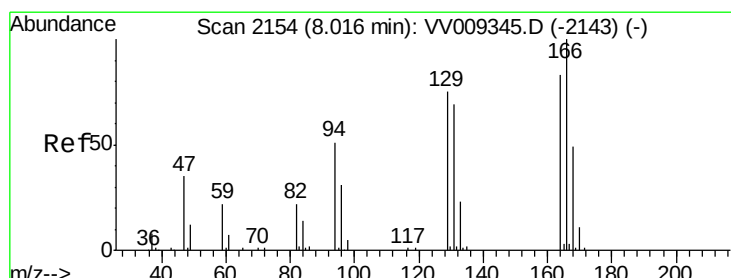
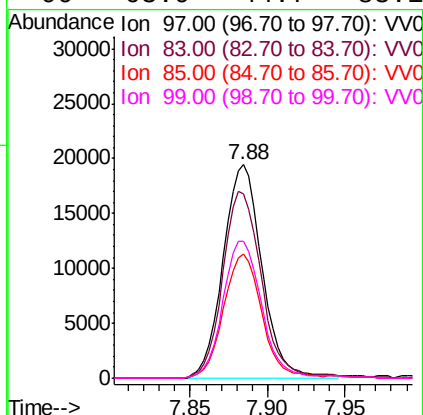
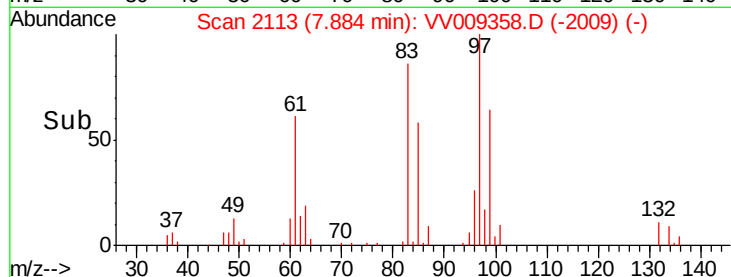
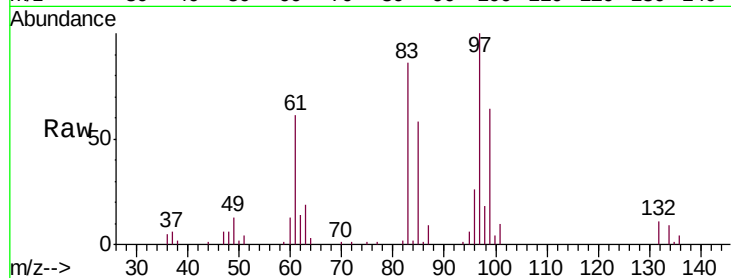




#46
 1,1,2-Trichloroethane
 Concen: 26.053 ug/L
 RT: 7.88 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VV009358.D
 Acq: 25 Feb 2019 19:40

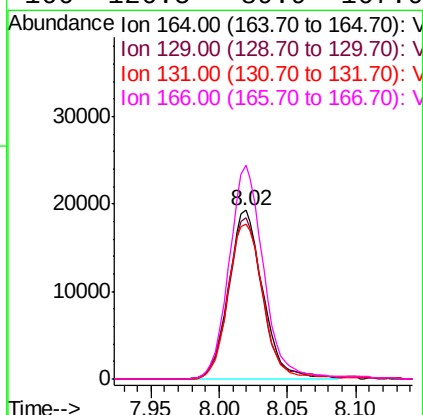
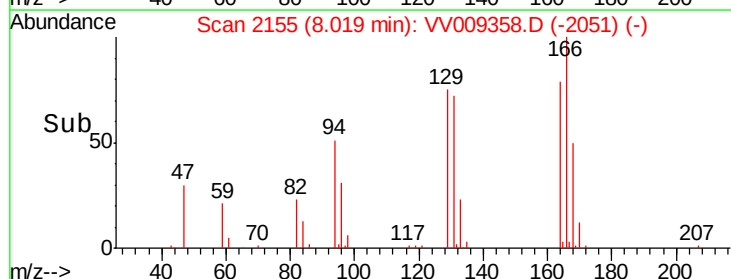
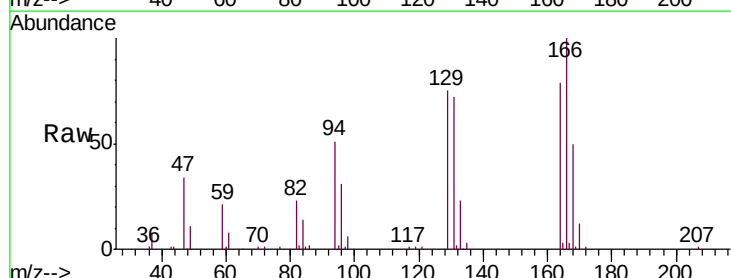
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02580

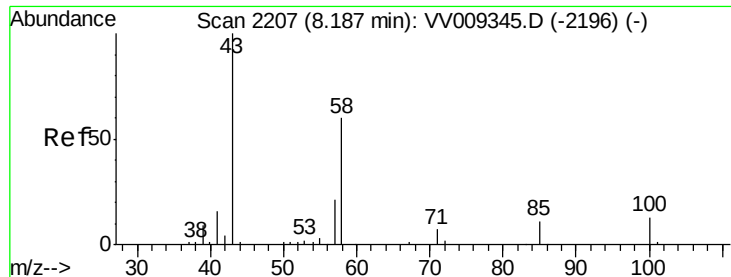
Tgt Ion:	97	Resp:	33849
Ion	Ratio	Lower	Upper
97	100		
83	86.3	58.1	107.9
85	58.1	38.4	71.2
99	63.9	44.7	83.1



#47
 Tetrachloroethene
 Concen: 25.910 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VV009358.D
 Acq: 25 Feb 2019 19:40

Tgt Ion:	164	Resp:	33859
Ion	Ratio	Lower	Upper
164	100		
129	95.4	67.0	124.4
131	91.6	65.0	120.8
166	126.5	89.9	167.0

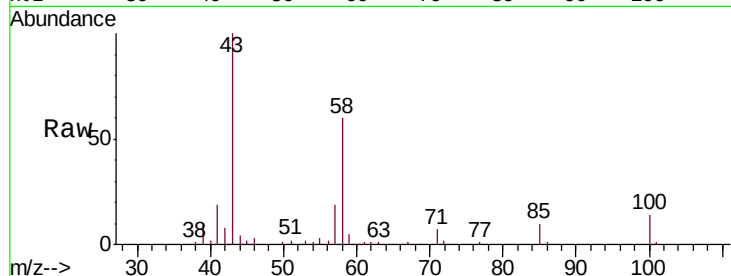




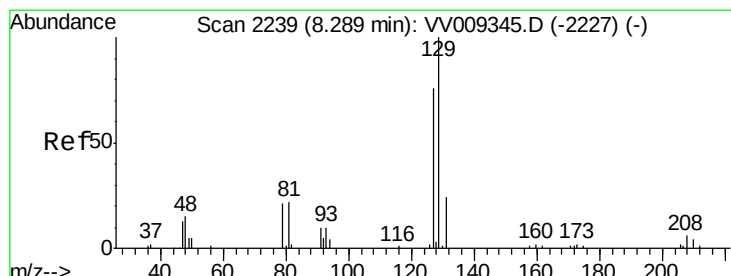
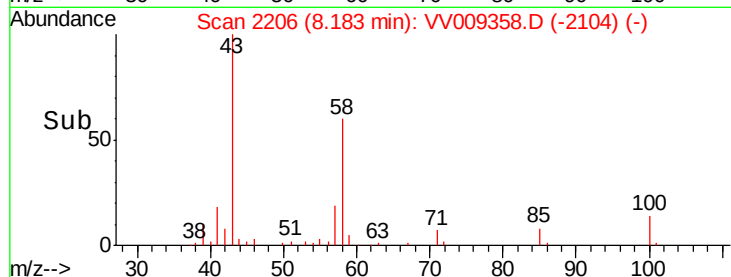
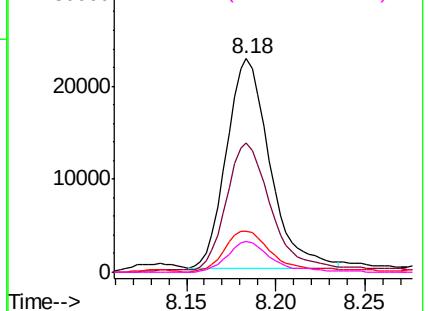
#49
2-Hexanone
Concen: 40.286 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. -0.00 min
Lab File: VV009358.D
Acq: 25 Feb 2019 19:40

Instrument :
MSVOA_V
ClientSampleId :
VSTD02580

Tgt Ion: 43 Resp: 37946
Ion Ratio Lower Upper
43 100
58 62.3 46.8 70.2
57 21.2 14.2 21.2
100 14.0 11.0 16.6

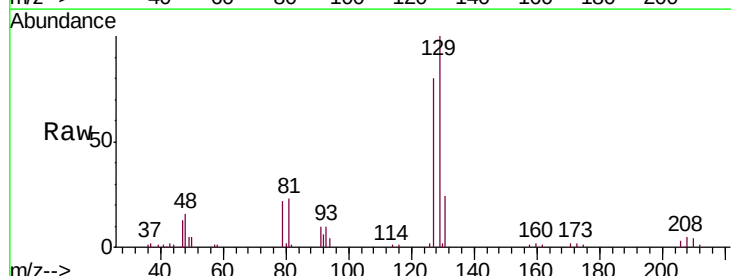


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

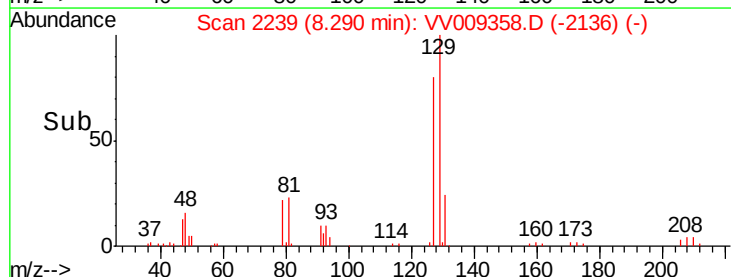
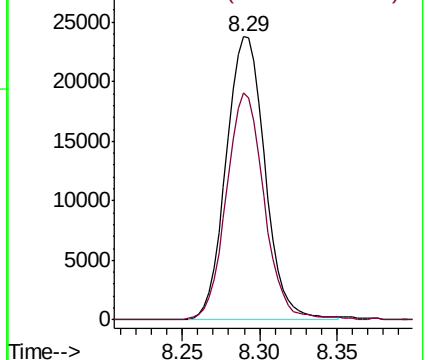


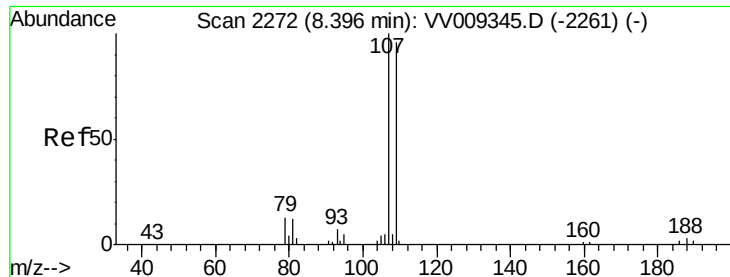
#50
Dibromochloromethane
Concen: 26.528 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV009358.D
Acq: 25 Feb 2019 19:40

Tgt Ion: 129 Resp: 41558
Ion Ratio Lower Upper
129 100
127 80.1 53.6 99.6



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#51

1,2-Dibromoethane

Concen: 26.089 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

Instrument :

MSVOA_V

ClientSampleId :

VSTD02580

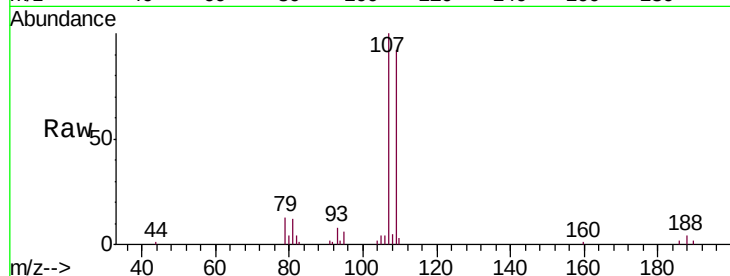
Tgt Ion:107 Resp: 33997

Ion Ratio Lower Upper

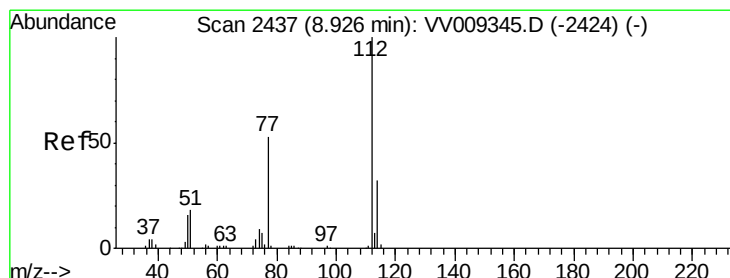
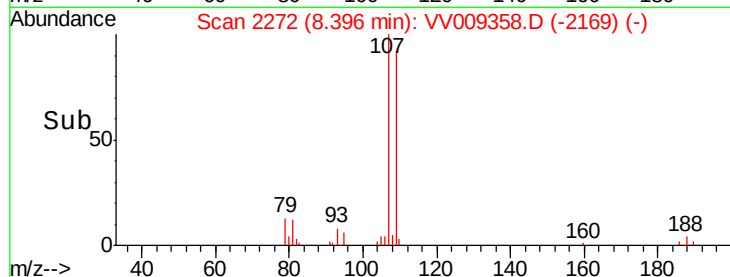
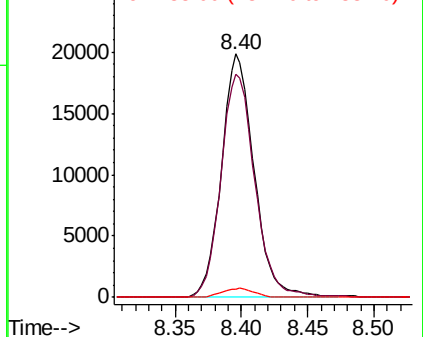
107 100

109 91.6 64.5 119.9

188 3.6 2.8 4.2



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: 29.413 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

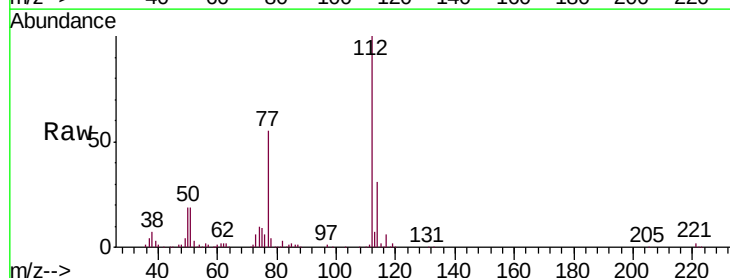
Tgt Ion:112 Resp: 127692

Ion Ratio Lower Upper

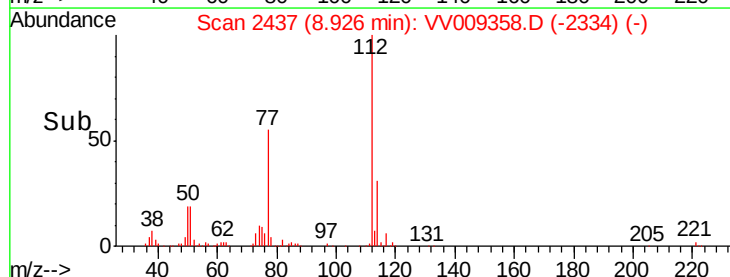
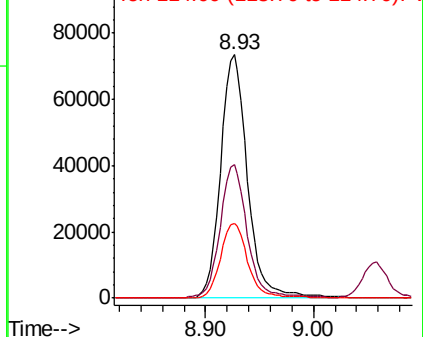
112 100

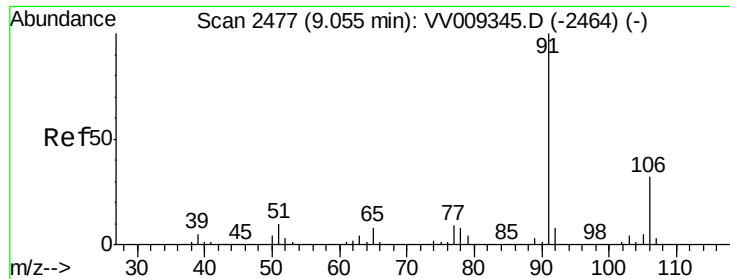
77 54.7 45.0 67.4

114 30.8 22.0 41.0



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 27.977 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

Instrument :

MSVOA_V

ClientSampleId :

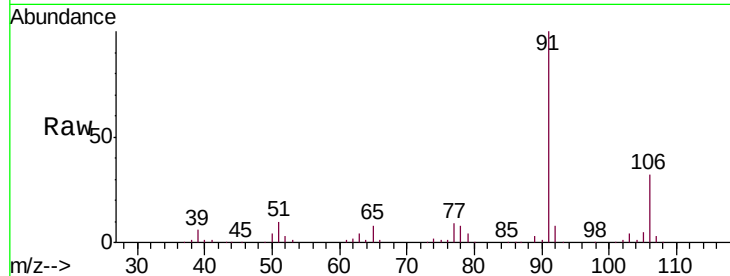
VSTD02580

Tgt Ion: 91 Resp: 210724

Ion Ratio Lower Upper

91 100

106 32.3 22.2 41.2



Abundance Ion 91.00 (90.70 to 91.70): VV009345.D (-2464) (-)

Ion 106.00 (105.70 to 106.70): VV009345.D (-2464) (-)

9.06

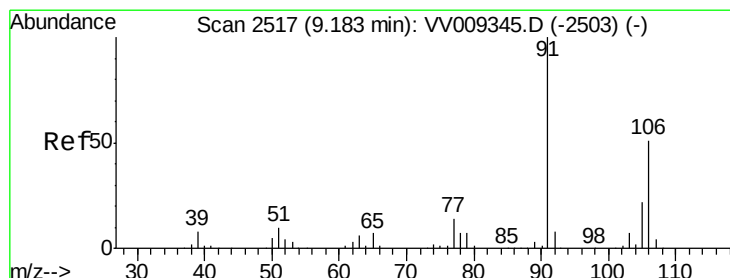
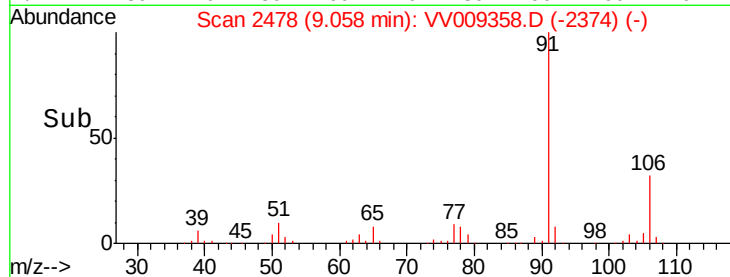
150000

100000

50000

0

Time-->



#54

m,p-Xylene

Concen: 29.088 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV009358.D

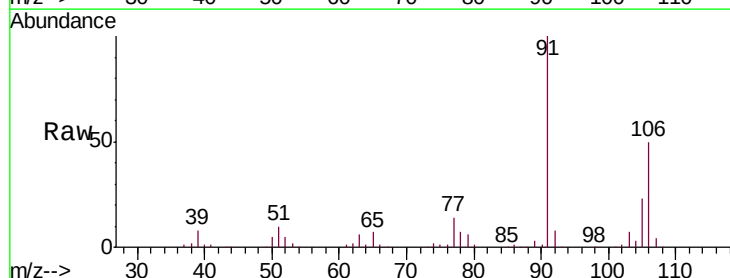
Acq: 25 Feb 2019 19:40

Tgt Ion: 106 Resp: 85487

Ion Ratio Lower Upper

106 100

91 198.5 141.4 262.6



Abundance Ion 106.00 (105.70 to 106.70): VV009345.D (-2503) (-)

Ion 91.00 (90.70 to 91.70): VV009345.D (-2503) (-)

9.18

100000

80000

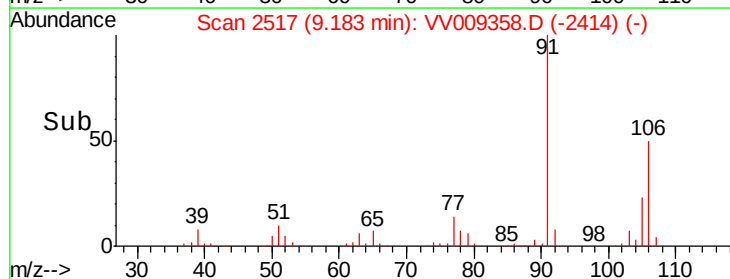
60000

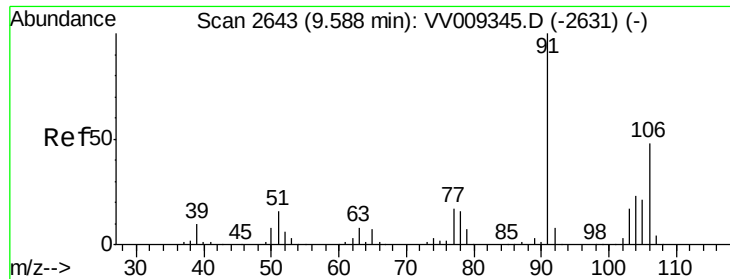
40000

20000

0

Time-->

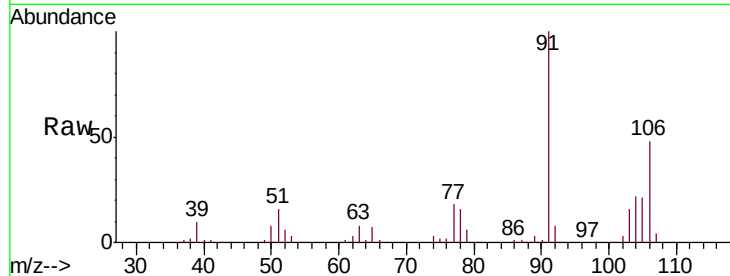




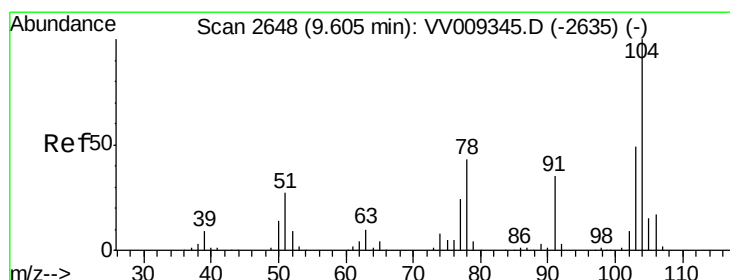
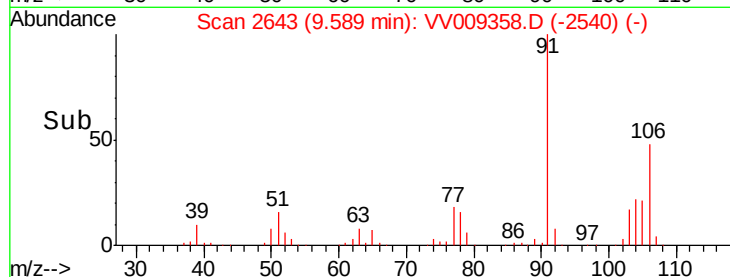
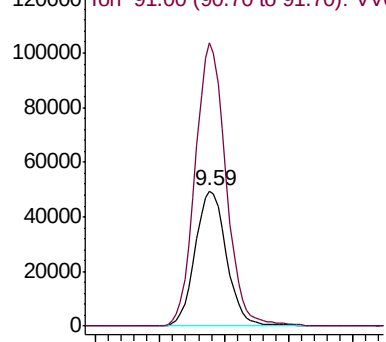
#55
o-xylene
Concen: 30.383 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.00 min
Lab File: VV009358.D
Acq: 25 Feb 2019 19:40

Instrument :
MSVOA_V
ClientSampleId :
VSTD02580

Tgt Ion:106 Resp: 83814
Ion Ratio Lower Upper
106 100
91 208.9 146.4 271.8

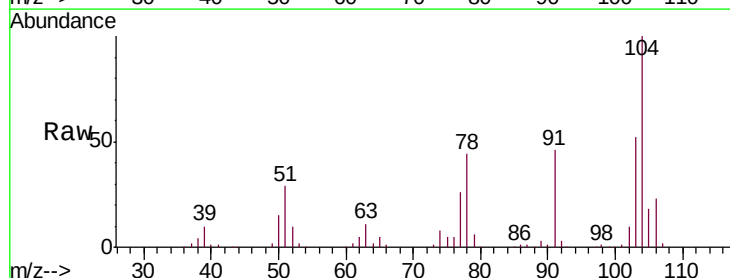


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

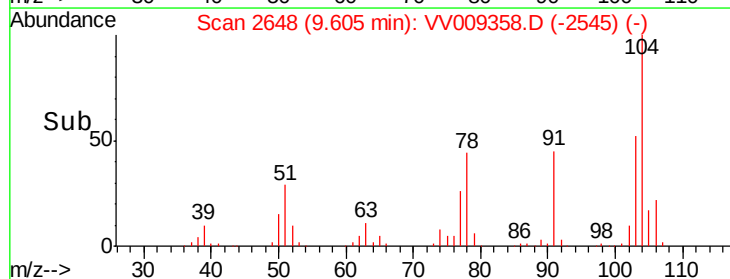
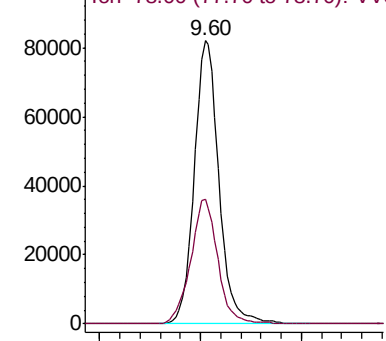


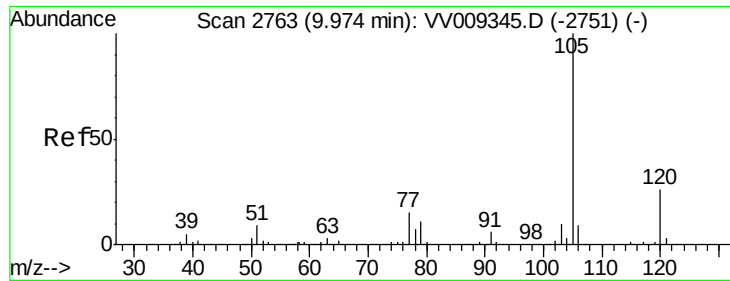
#56
Styrene
Concen: 29.687 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV009358.D
Acq: 25 Feb 2019 19:40

Tgt Ion:104 Resp: 140537
Ion Ratio Lower Upper
104 100
78 44.0 31.6 58.6



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 28.659 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

Instrument :

MSVOA_V

ClientSampleId :

VSTD02580

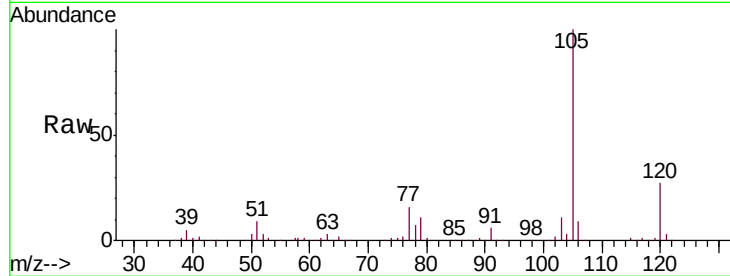
Tgt Ion: 105 Resp: 218863

Ion Ratio Lower Upper

105 100

120 26.9 21.7 32.5

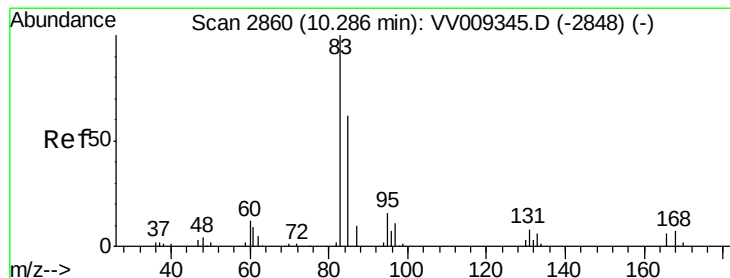
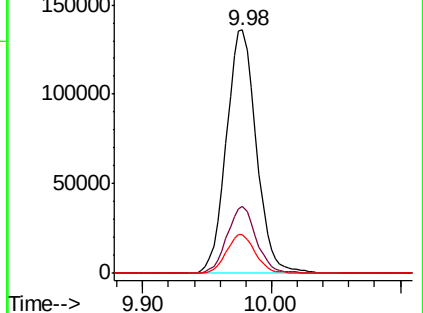
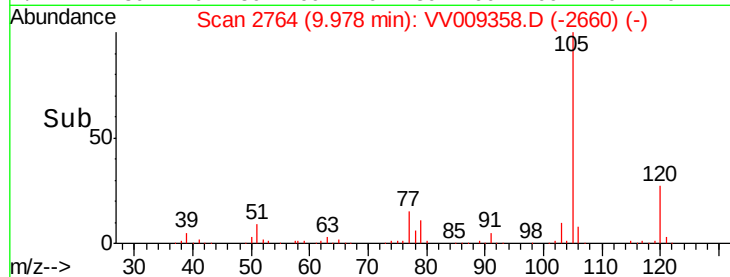
77 15.6 12.8 19.2



Abundance Ion 105.00 (104.70 to 105.70): VV009345.D (-2751) (-)

Ion 120.00 (119.70 to 120.70): VV009345.D (-2751) (-)

Ion 77.00 (76.70 to 77.70): VV009345.D (-2751) (-)



#58

1,1,2,2-Tetrachloroethane

Concen: 26.565 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

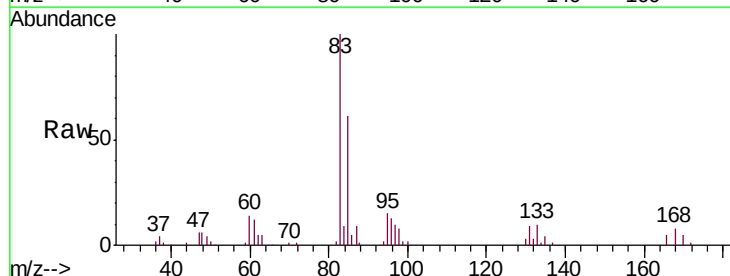
Tgt Ion: 83 Resp: 48706

Ion Ratio Lower Upper

83 100

85 61.1 44.7 83.1

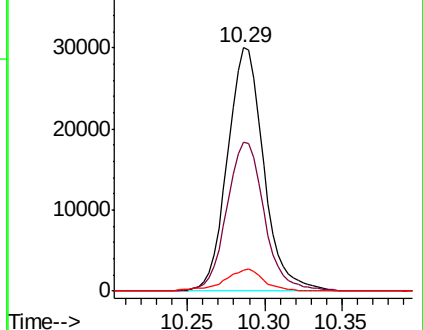
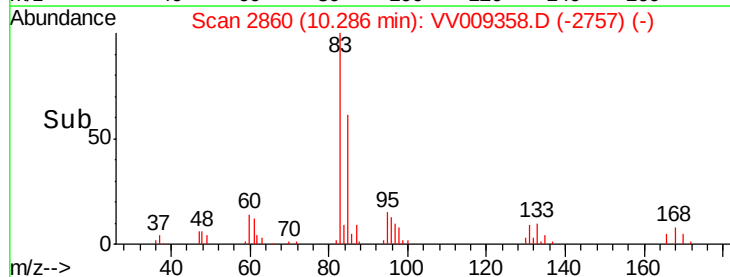
131 8.5 8.1 12.1

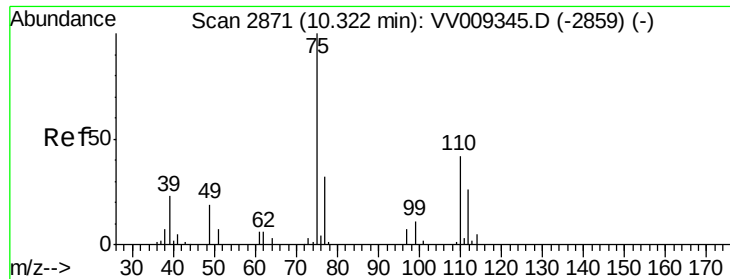


Abundance Ion 83.00 (82.70 to 83.70): VV009345.D (-2848) (-)

Ion 85.00 (84.70 to 85.70): VV009345.D (-2848) (-)

Ion 131.00 (130.70 to 131.70): VV009345.D (-2848) (-)





#59

1,2,3-Trichloropropane

Concen: 24.986 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

Instrument :

MSVOA_V

ClientSampleId :

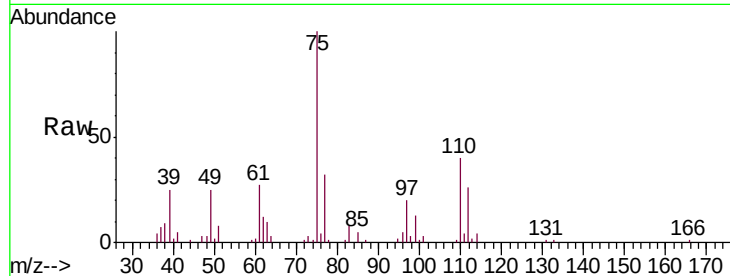
VSTD02580

Tgt Ion: 75 Resp: 32827

Ion Ratio Lower Upper

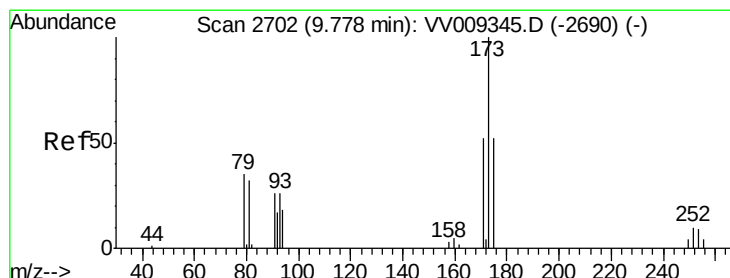
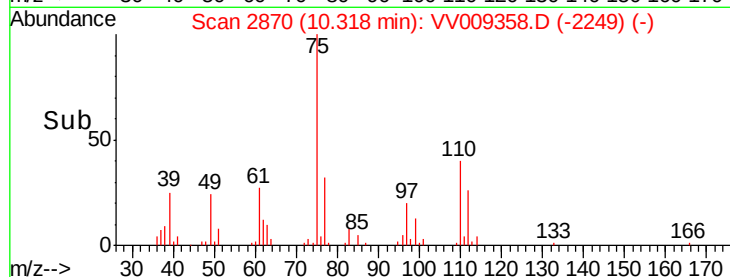
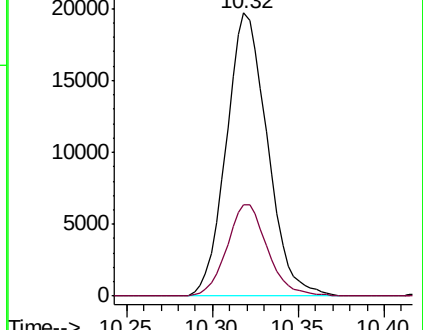
75 100

77 31.9 26.3 39.5



Abundance Ion 75.00 (74.70 to 75.70): VV009345.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV009345.D (-2859) (-)



#62

Bromoform

Concen: 24.427 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

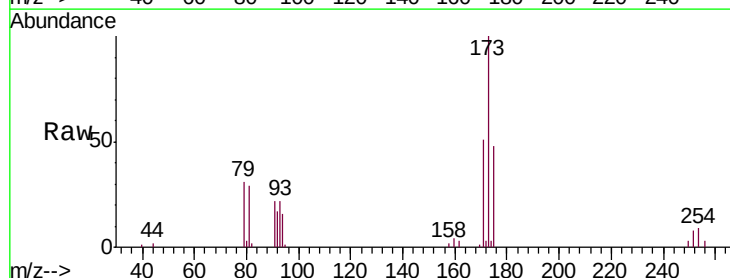
Tgt Ion: 173 Resp: 24893

Ion Ratio Lower Upper

173 100

175 48.9 39.1 58.7

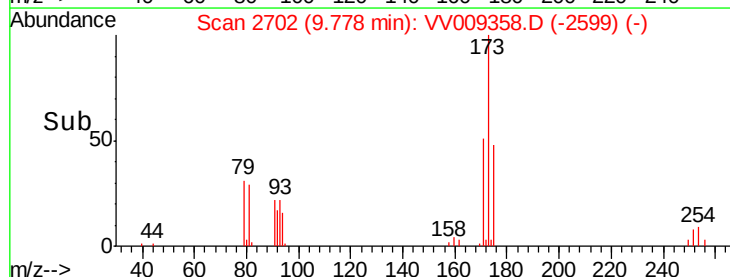
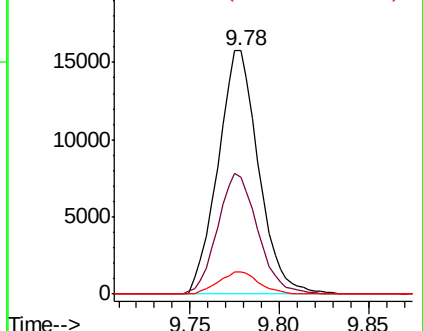
254 9.0 5.7 8.5#

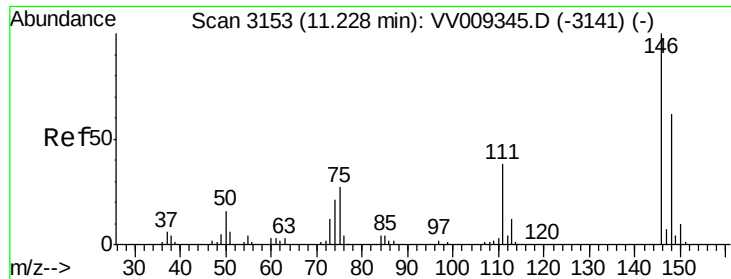


Abundance Ion 173.00 (172.70 to 173.70): VV009345.D (-2690) (-)

Ion 175.00 (174.70 to 175.70): VV009345.D (-2690) (-)

Ion 254.00 (253.70 to 254.70): VV009345.D (-2690) (-)





#63

1,3-Dichlorobenzene

Concen: 27.856 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

Instrument :

MSVOA_V

ClientSampleId :

VSTD02580

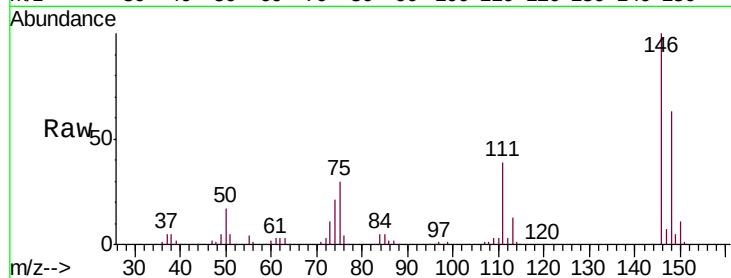
Tgt Ion:146 Resp: 98632

Ion Ratio Lower Upper

146 100

111 39.3 27.6 51.4

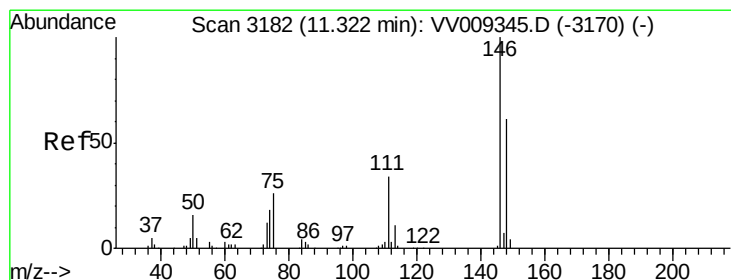
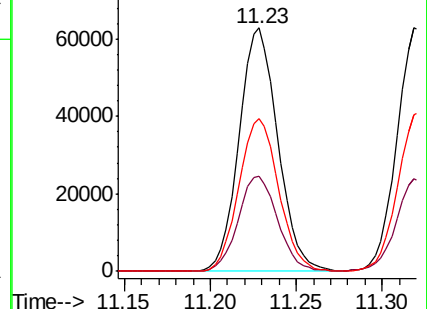
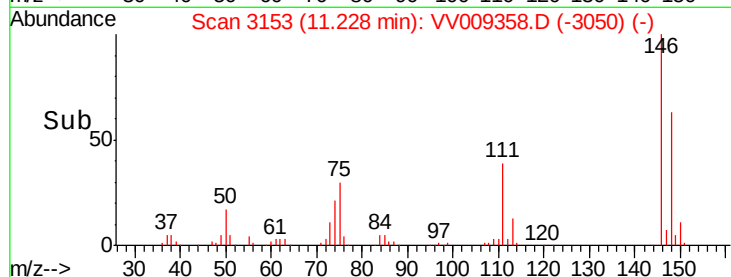
148 63.0 45.4 84.4



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: 28.074 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. -0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

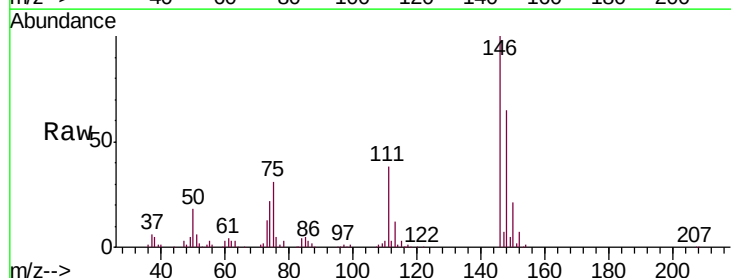
Tgt Ion:146 Resp: 99087

Ion Ratio Lower Upper

146 100

111 38.0 26.9 50.1

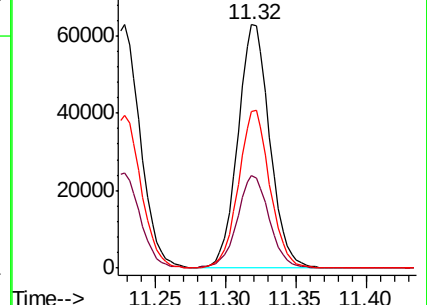
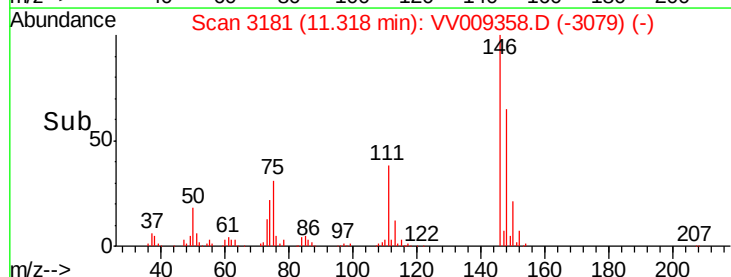
148 64.5 44.1 81.9

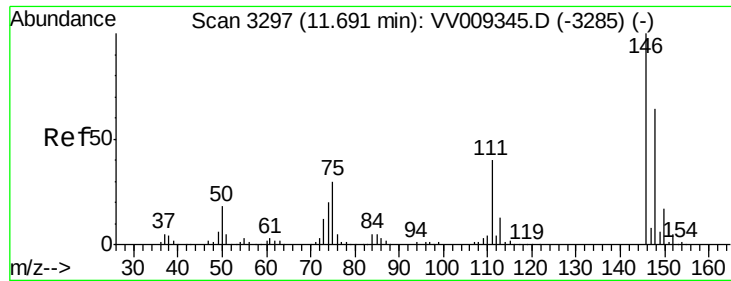


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 28.428 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

Instrument :

MSVOA_V

ClientSampleId :

VSTD02580

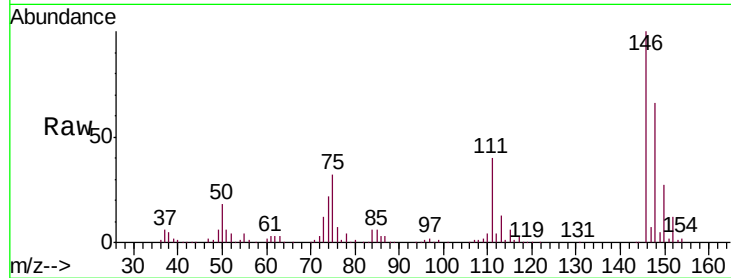
Tgt Ion: 146 Resp: 94380

Ion Ratio Lower Upper

146 100

111 39.9 32.6 48.8

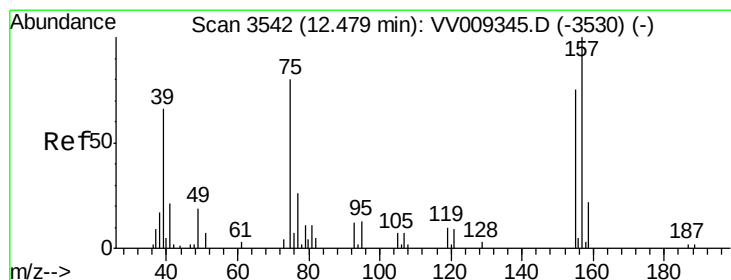
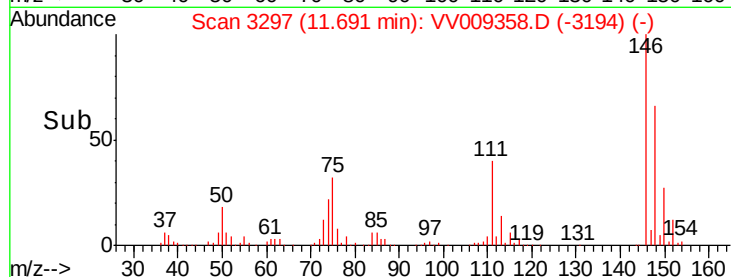
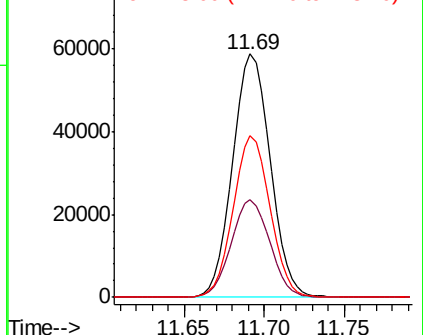
148 66.3 51.1 76.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 19.905 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

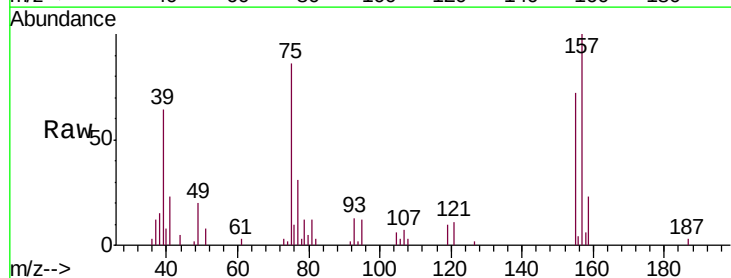
Tgt Ion: 75 Resp: 7339

Ion Ratio Lower Upper

75 100

157 116.8 88.6 133.0

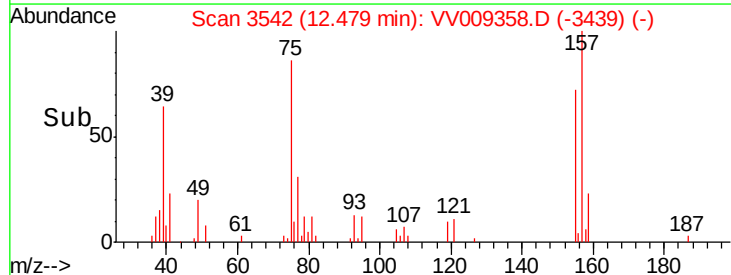
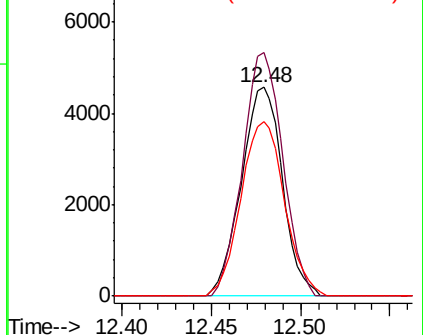
155 83.6 66.6 100.0

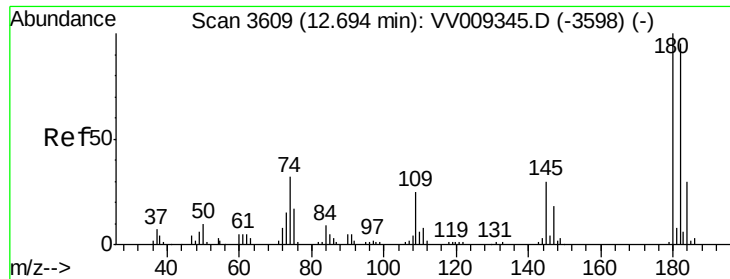


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

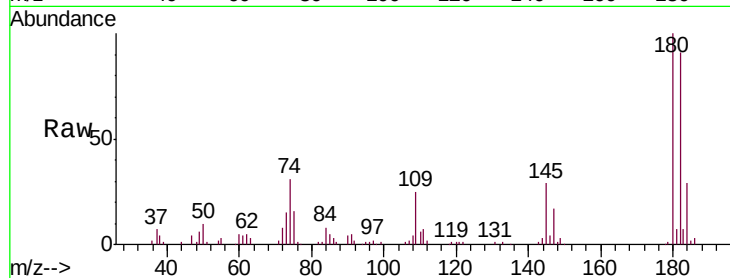




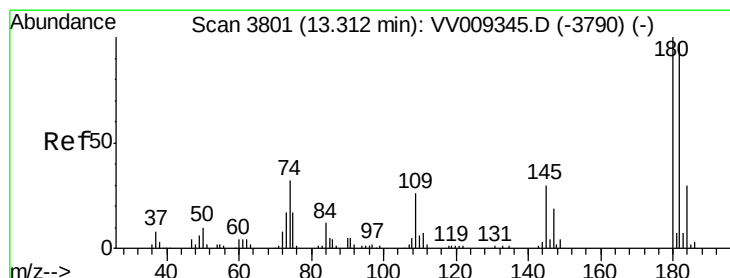
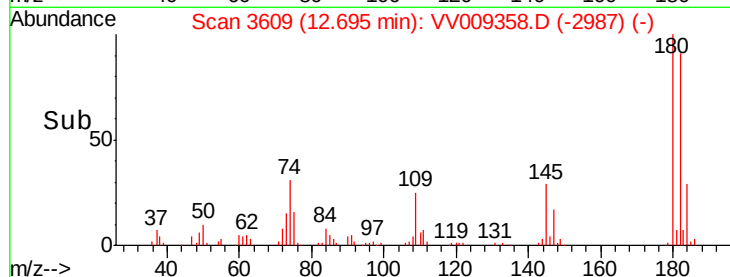
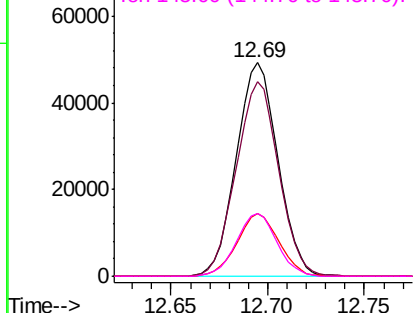
#67
 1,3,5-Trichlorobenzene
 Concen: 28.762 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV009358.D
 Acq: 25 Feb 2019 19:40

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02580

Tgt Ion:180 Resp: 73690
 Ion Ratio Lower Upper
 180 100
 182 93.1 77.4 116.2
 184 29.3 24.9 37.3
 145 28.7 24.3 36.5

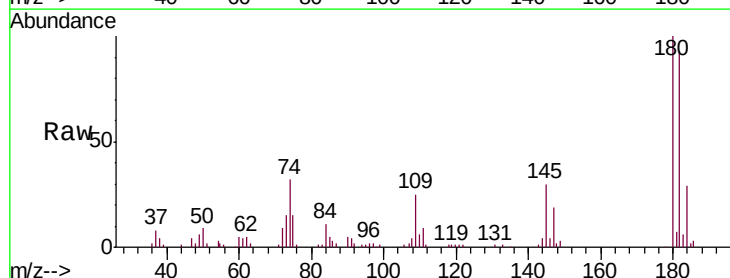


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

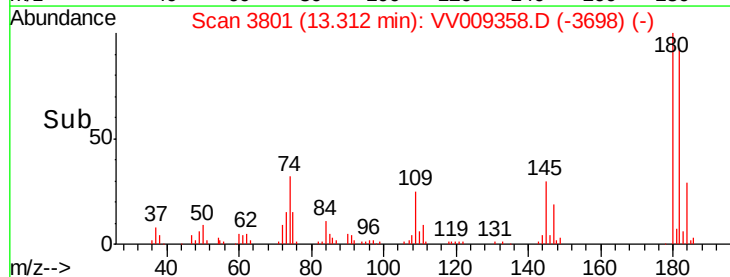
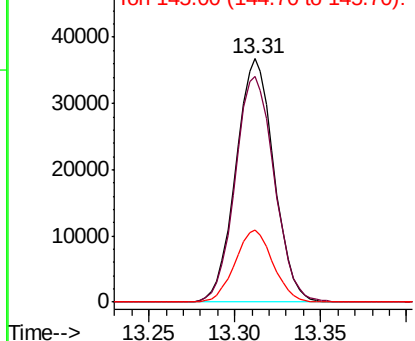


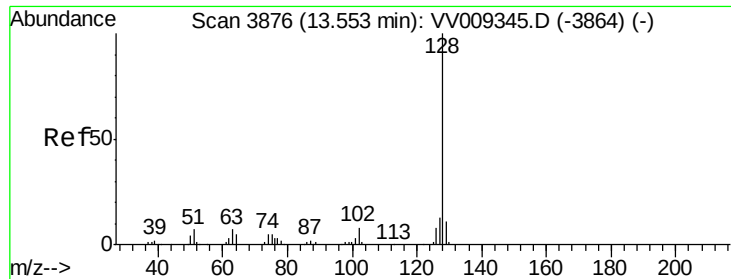
#68
 1,2,4-trichlorobenzene
 Concen: 27.152 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009358.D
 Acq: 25 Feb 2019 19:40

Tgt Ion:180 Resp: 56761
 Ion Ratio Lower Upper
 180 100
 182 94.9 76.7 115.1
 145 29.3 25.1 37.7



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: 22.715 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

Instrument :

MSVOA_V

ClientSampleId :

VSTD02580

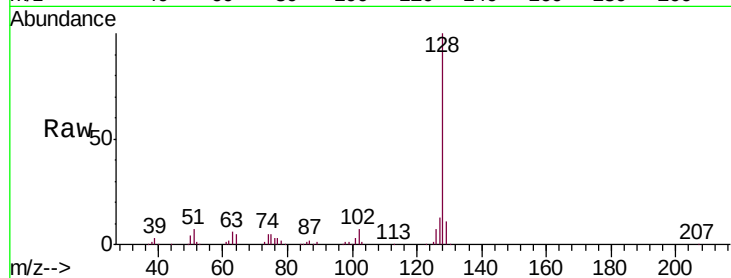
Tgt Ion:128 Resp: 101783

Ion Ratio Lower Upper

128 100

129 10.4 8.6 13.0

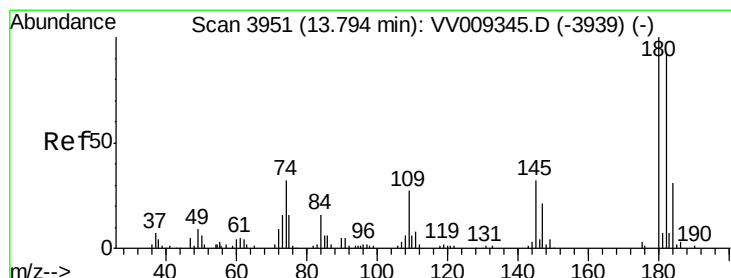
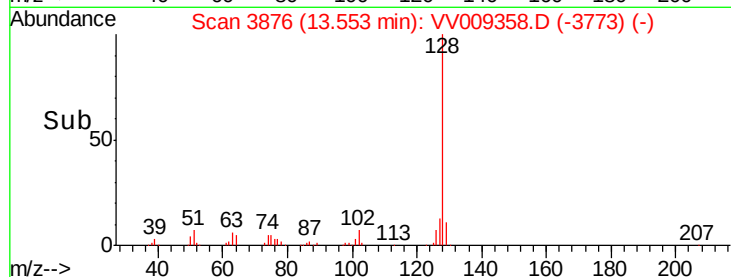
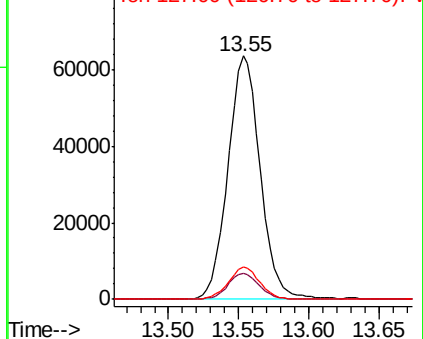
127 12.9 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 26.647 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV009358.D

Acq: 25 Feb 2019 19:40

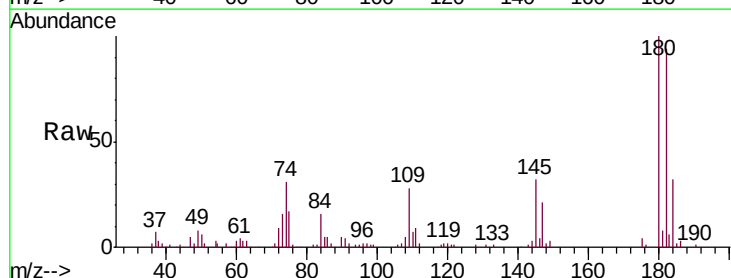
Tgt Ion:180 Resp: 51409

Ion Ratio Lower Upper

180 100

182 96.5 73.6 110.4

145 32.1 26.1 39.1



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

