

Data File : VV009959.D
Acq On : 28 Mar 2019 11:18
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02569

Quant Time: Mar 29 02:18:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM032619S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 07:17:22 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	185010	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	178065	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	88710	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	78623	20.94	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	83.76%
7) Chloroethane-d5	1.57	69	87358	21.54	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.16%
10) 1,1-Dichloroethene-d2	2.12	63	245756	23.93	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	95.72%
20) 2-Butanone-d5	3.94	46	34311	49.04	ug/L	0.02
Spiked Amount	50.000	Range	20 - 135	Recovery	=	98.08%
24) Chloroform-d	4.40	84	115501	24.50	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.00%
26) 1,2-Dichloroethane-d4	5.08	65	66710	23.52	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	94.08%
29) Benzene-d6	5.09	84	226871	24.26	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	97.04%
33) 1,2-Dichloropropane-d6	6.11	67	65463	23.93	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	95.72%
37) Toluene-d8	7.36	98	219458	24.79	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	99.16%
38) trans-1,3-Dichloropropene-	7.66	79	26776	23.92	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	95.68%
39) 2-Hexanone-d5	8.14	63	26029	50.97	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	101.94%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	64377	23.77	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	95.08%
61) 1,2-Dichlorobenzene-d4	11.67	152	74353	22.01	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	88.04%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	66843	23.337 ug/L	98
3) Chloromethane	1.25	50	93583	28.271 ug/L	100
5) Vinyl chloride	1.32	62	100376	23.321 ug/L	99
8) Chloroethane	1.59	64	72719	19.612 ug/L	99
9) Trichlorofluoromethane	1.76	101	244305	26.616 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	138667	25.991 ug/L	99
12) 1,1-Dichloroethene	2.13	96	114452	25.288 ug/L	97
13) Acetone	2.20	43	42857	40.460 ug/L	95
14) Carbon disulfide	2.31	76	148100	24.187 ug/L	100
15) Methyl Acetate	2.46	43	30068	24.234 ug/L	94
16) Methylene chloride	2.53	84	72515	23.801 ug/L	97
17) Methyl tert-butyl Ether	2.81	73	133780	22.654 ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	59070	24.367 ug/L	94
19) 1,1-Dichloroethane	3.23	63	108766	24.534 ug/L	97
21) 2-Butanone	4.03	43	42961	45.540 ug/L	97
22) cis-1,2-Dichloroethene	3.96	96	65838	24.597 ug/L	95
23) Bromochloromethane	4.30	128	29770	24.087 ug/L	94

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Quant Title : VOC Analysis
QLast Update : Thu Mar 28 07:17:22 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	4.42	83	114735	23.407	ug/L	98
27) 1,2-Dichloroethane	5.18	62	80509	23.182	ug/L	99
30) Cyclohexane	4.72	56	100498	27.991	ug/L	98
31) 1,1,1-Trichloroethane	4.65	97	100480	28.197	ug/L	99
32) Carbon tetrachloride	4.87	117	85469	27.594	ug/L	99
34) Benzene	5.14	78	247982	25.361	ug/L	100
35) Trichloroethene	5.96	95	66589	25.817	ug/L	98
36) Methylcyclohexane	6.17	83	113486	28.044	ug/L	96
40) 1,2-Dichloropropane	6.22	63	57424	23.502	ug/L #	92
41) Bromodichloromethane	6.55	83	77050	25.357	ug/L	96
42) cis-1,3-Dichloropropene	7.07	75	88677	24.893	ug/L	98
43) 4-Methyl-2-pentanone	7.28	43	88293	50.637	ug/L	100
44) Toluene	7.43	91	279693	25.946	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	75079	25.746	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	48519	24.010	ug/L	98
47) Tetrachloroethene	8.02	164	52266	25.680	ug/L	92
49) 2-Hexanone	8.19	43	69204	58.725	ug/L	97
50) Dibromochloromethane	8.29	129	50171	23.944	ug/L	96
51) 1,2-Dibromoethane	8.40	107	49778	25.369	ug/L #	97
52) Chlorobenzene	8.92	112	176377	24.578	ug/L	97
53) Ethylbenzene	9.05	91	308072	25.908	ug/L	97
54) m,p-Xylene	9.18	106	117119	25.077	ug/L	90
55) o-xylene	9.59	106	111459	24.587	ug/L	98
56) Styrene	9.60	104	185198	23.784	ug/L	99
57) Isopropylbenzene	9.97	105	306931	26.099	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	67809	24.894	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	46529	23.668	ug/L	100
62) Bromoform	9.78	173	25813	22.622	ug/L	99
63) 1,3-Dichlorobenzene	11.23	146	132584	24.164	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	133779	22.435	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	124914	23.068	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	8235	24.332	ug/L	87
67) 1,3,5-Trichlorobenzene	12.69	180	98287	25.224	ug/L	97
68) 1,2,4-trichlorobenzene	13.31	180	73857	25.695	ug/L	98
69) Naphthalene	13.55	128	117448	24.581	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	69924	25.584	ug/L	98

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

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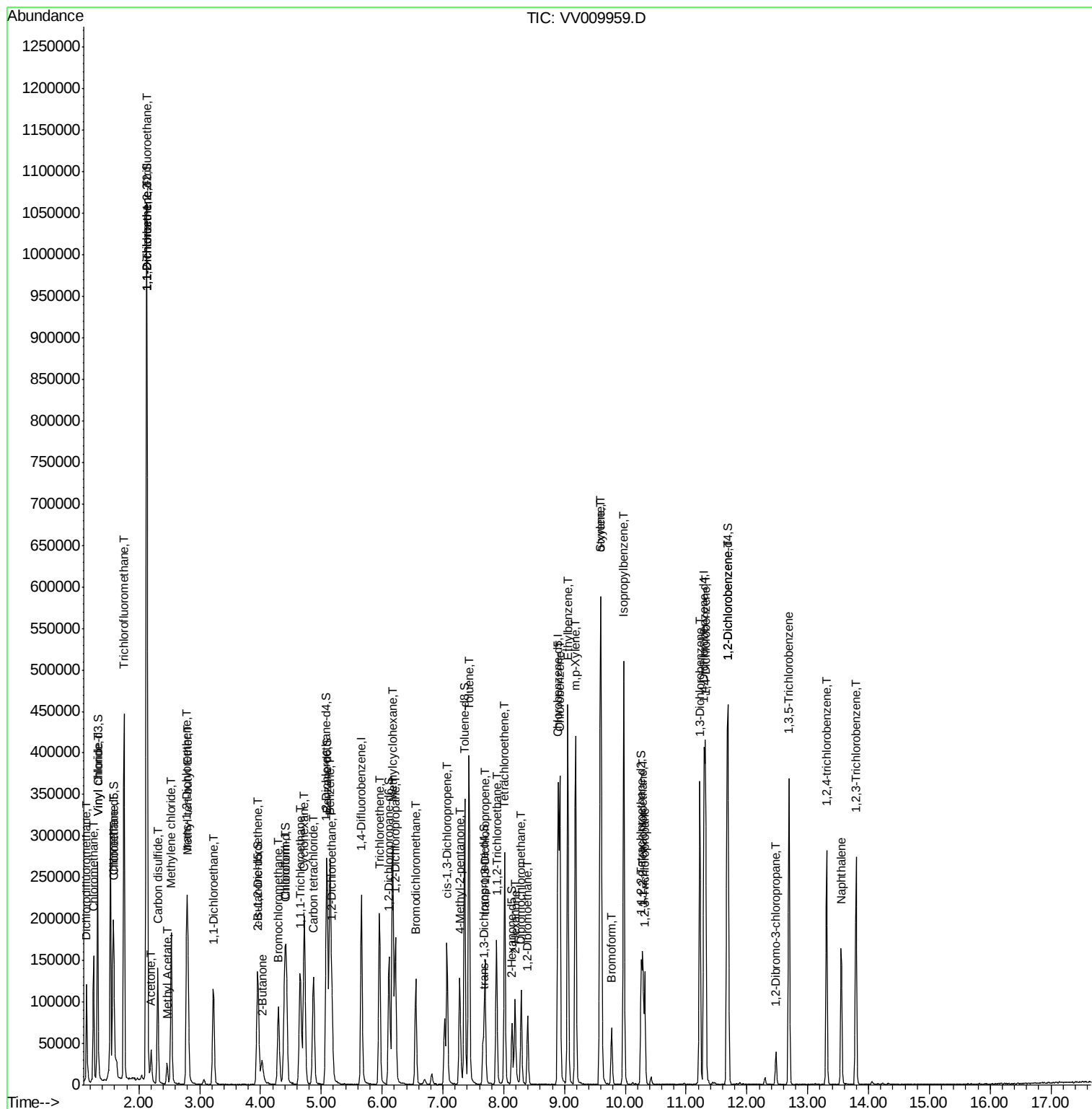
Quant Time: Mar 29 02:18:20 2019

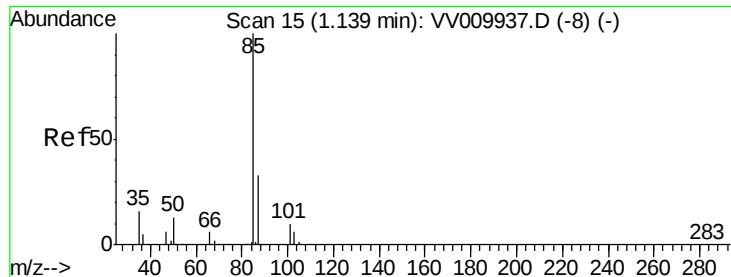
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM032619S.M

Quant Title : VOC Analysis

QLast Update : Thu Mar 28 07:17:22 2019

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#2

Dichlorodifluoromethane

Concen: 23.337 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

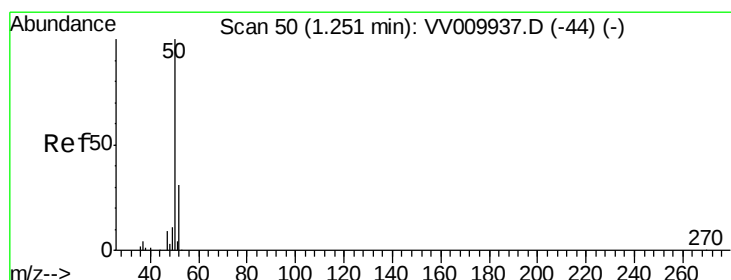
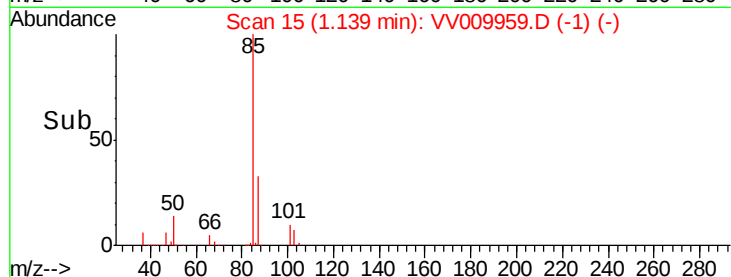
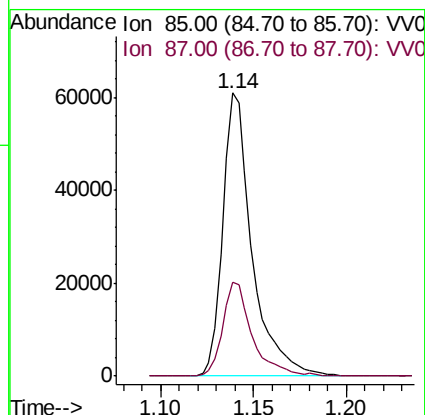
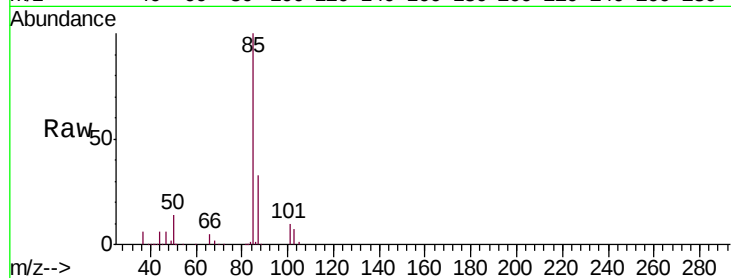
VSTD02569

Tgt Ion: 85 Resp: 66843

Ion Ratio Lower Upper

85 100

87 32.8 22.2 41.2



#3

Chloromethane

Concen: 28.271 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV009959.D

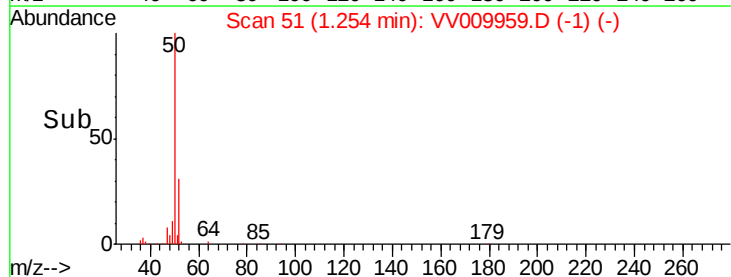
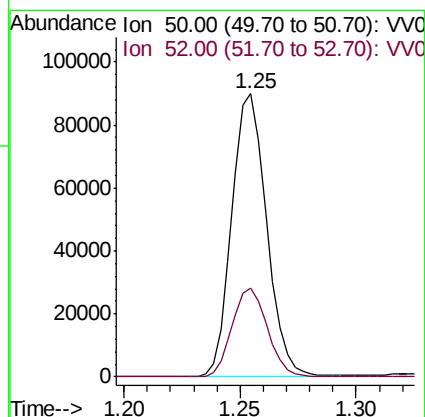
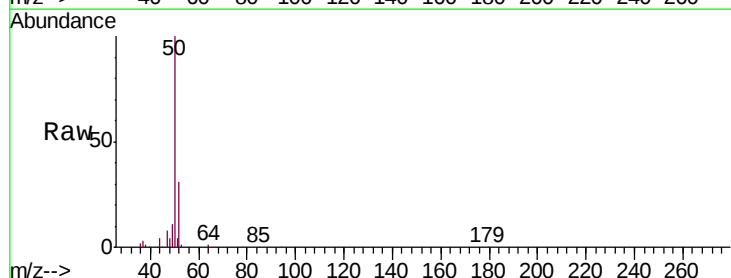
Acq: 28 Mar 2019 11:18

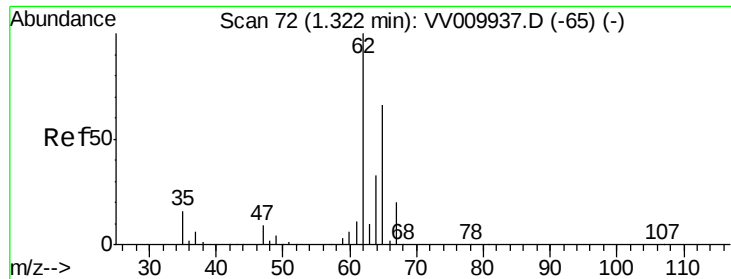
Tgt Ion: 50 Resp: 93583

Ion Ratio Lower Upper

50 100

52 31.4 21.8 40.6





#5

Vinyl chloride

Concen: 23.321 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

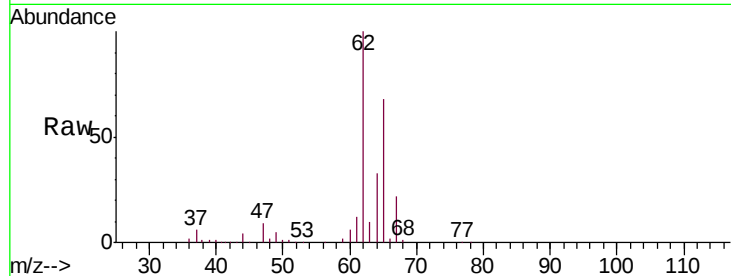
VSTD02569

Tgt Ion: 62 Resp: 100376

Ion Ratio Lower Upper

62 100

64 33.1 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VV009937.D (-65) (-)

Ion 64.00 (63.70 to 64.70): VV009937.D (-65) (-)

100000

80000

60000

40000

20000

0

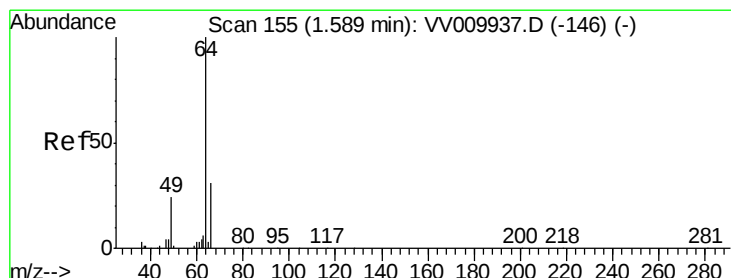
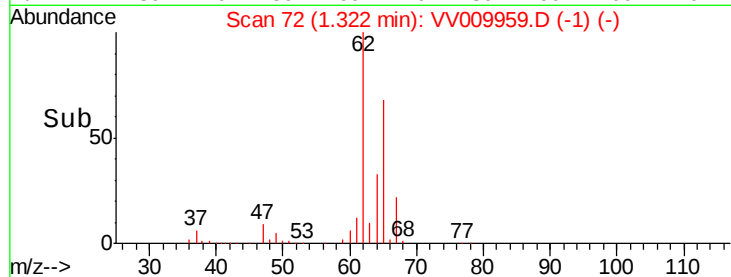
1.30

1.32

1.35

1.40

Time-->



#8

Chloroethane

Concen: 19.612 ug/L

RT: 1.59 min Scan# 154

Delta R.T. -0.00 min

Lab File: VV009959.D

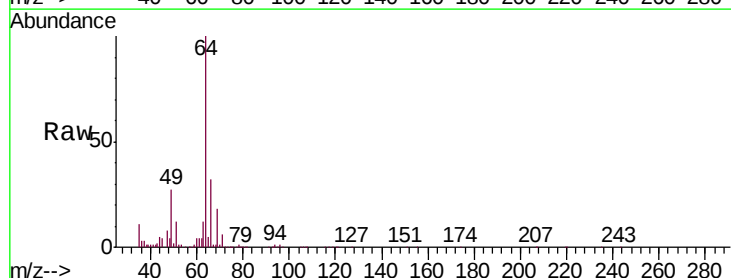
Acq: 28 Mar 2019 11:18

Tgt Ion: 64 Resp: 72719

Ion Ratio Lower Upper

64 100

66 32.5 22.3 41.5



Abundance Ion 64.00 (63.70 to 64.70): VV009937.D (-146) (-)

Ion 66.00 (65.70 to 66.70): VV009937.D (-146) (-)

80000

60000

40000

20000

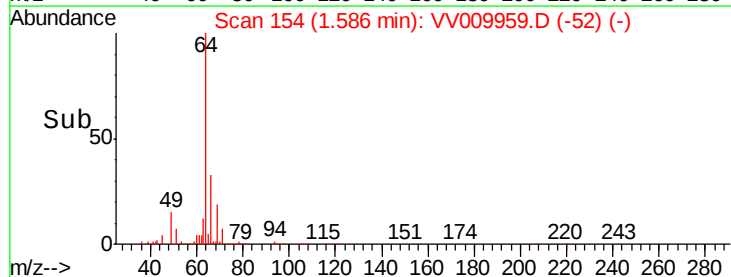
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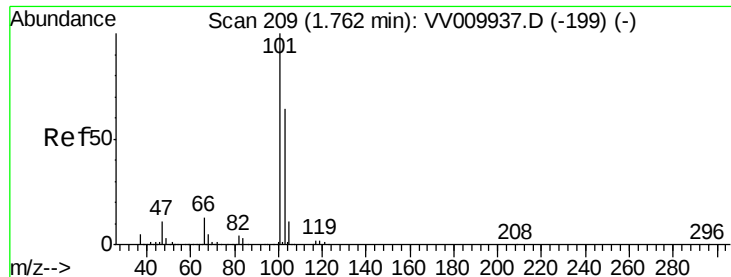
1.55

1.59

1.65

Time-->



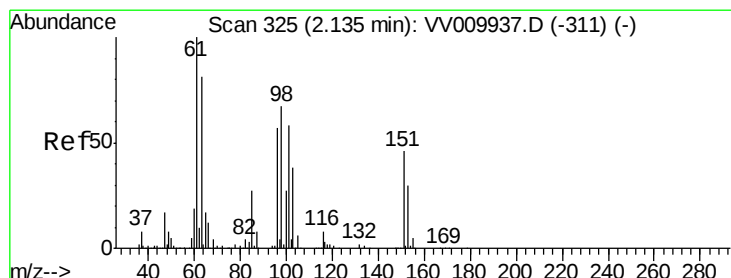
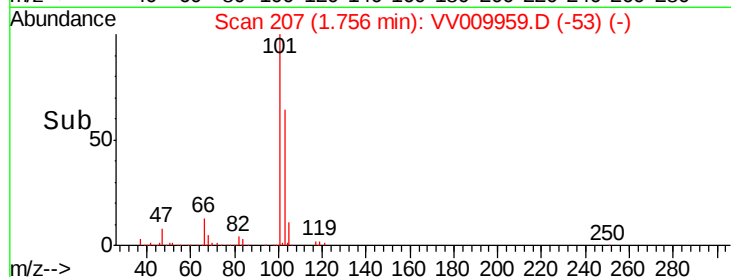
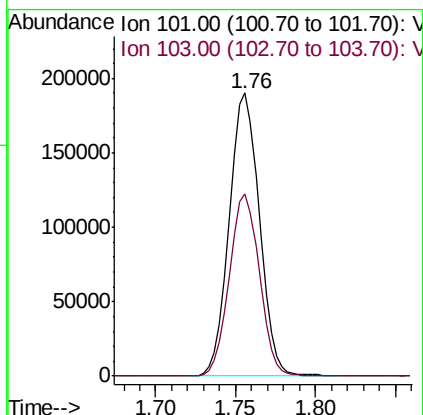
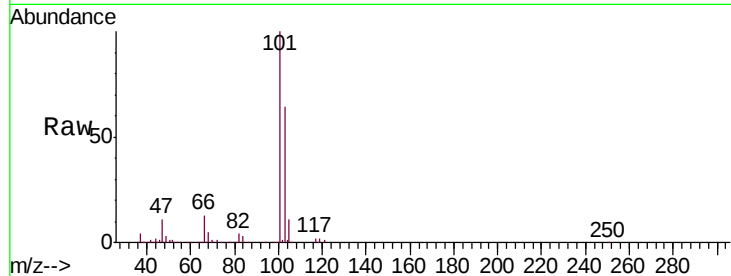


#9

Trichlorofluoromethane
 Concen: 26.616 ug/L
 RT: 1.76 min Scan# 207
 Delta R.T. -0.01 min
 Lab File: VV009959.D
 Acq: 28 Mar 2019 11:18

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

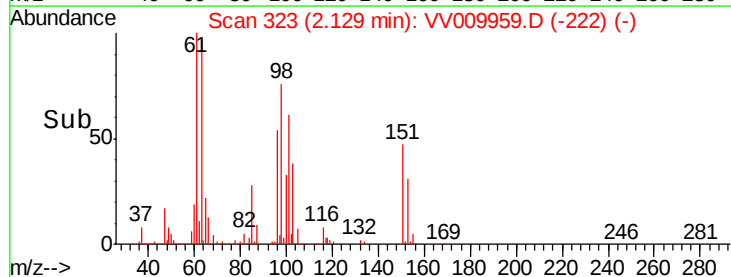
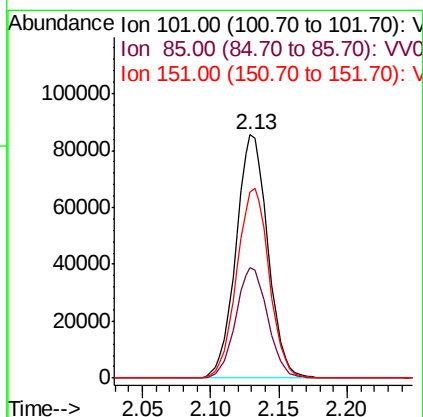
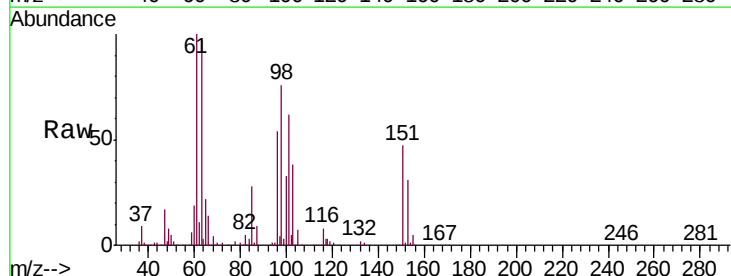
Tgt Ion:101 Resp: 244305
 Ion Ratio Lower Upper
 101 100
 103 64.2 45.1 83.9

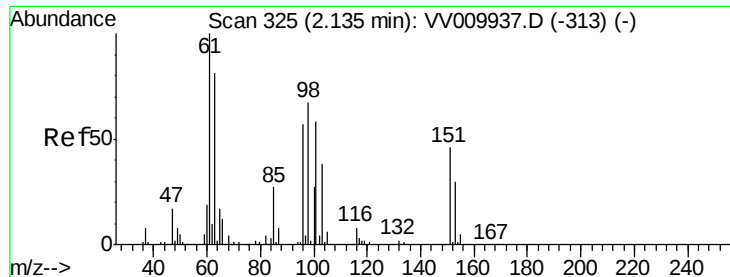


#11

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 25.991 ug/L
 RT: 2.13 min Scan# 323
 Delta R.T. -0.01 min
 Lab File: VV009959.D
 Acq: 28 Mar 2019 11:18

Tgt Ion:101 Resp: 138667
 Ion Ratio Lower Upper
 101 100
 85 45.4 36.9 55.3
 151 79.2 63.6 95.4





#12

1,1-Dichloroethene

Concen: 25.288 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

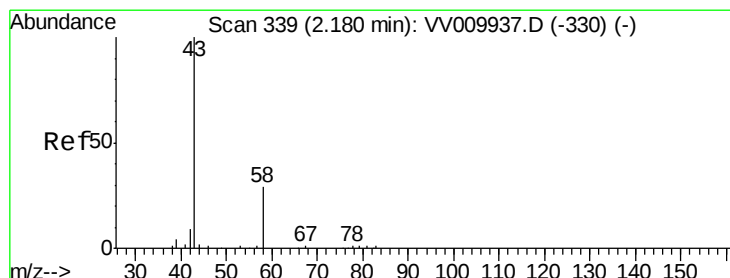
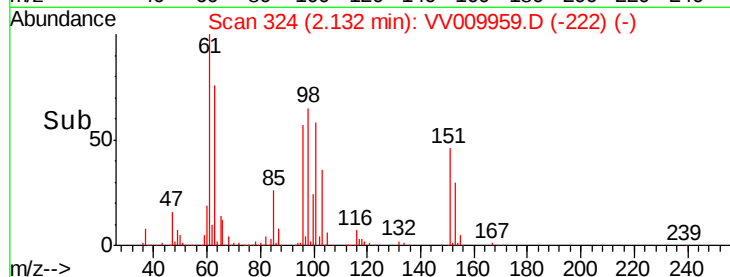
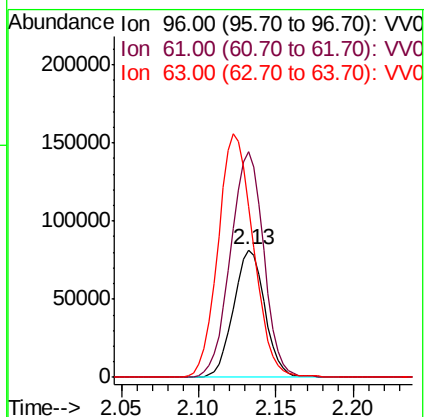
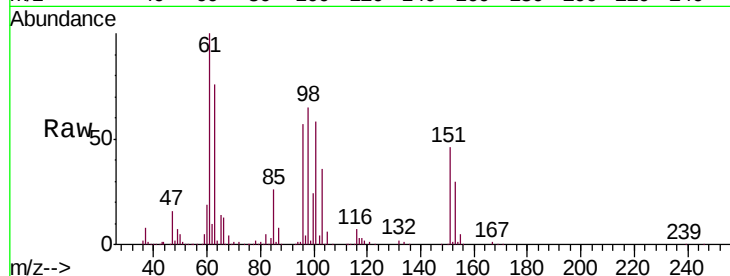
Tgt Ion: 96 Resp: 114452

Ion Ratio Lower Upper

96 100

61 176.9 124.3 230.8

63 134.0 88.2 163.8



#13

Acetone

Concen: 40.460 ug/L

RT: 2.20 min Scan# 346

Delta R.T. 0.02 min

Lab File: VV009959.D

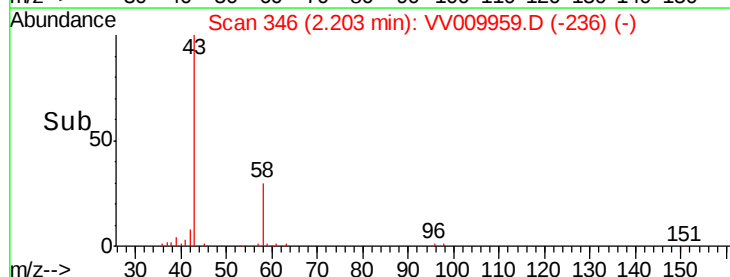
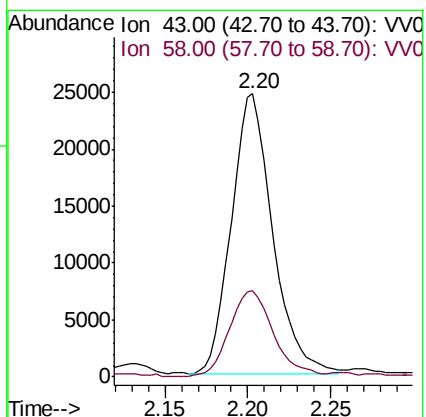
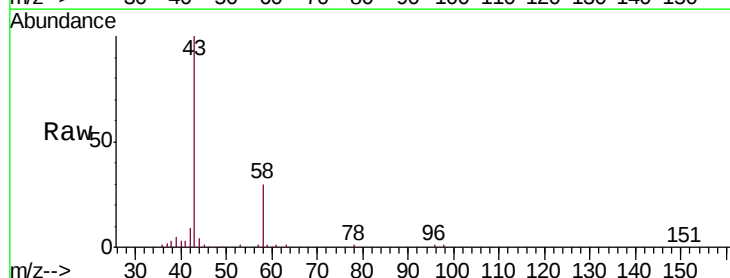
Acq: 28 Mar 2019 11:18

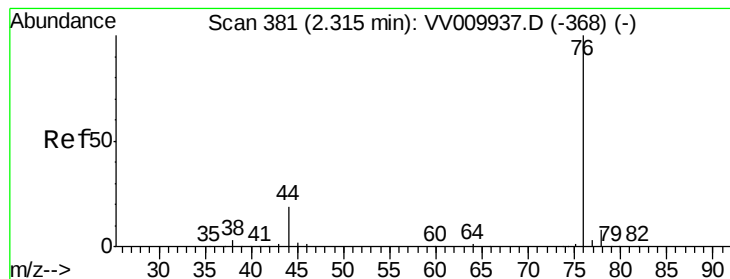
Tgt Ion: 43 Resp: 42857

Ion Ratio Lower Upper

43 100

58 32.7 0.0 59.4





#14

Carbon disulfide

Concen: 24.187 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

Instrument :

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ClientSampleId :

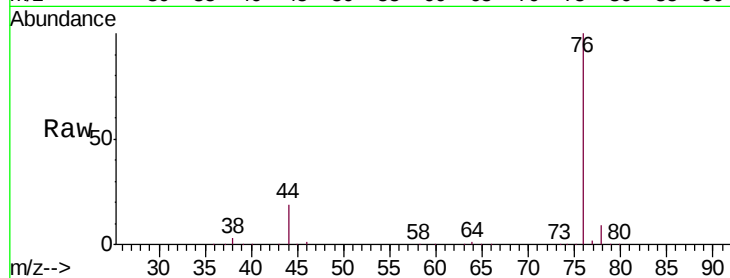
VSTD02569

Tgt Ion: 76 Resp: 148100

Ion Ratio Lower Upper

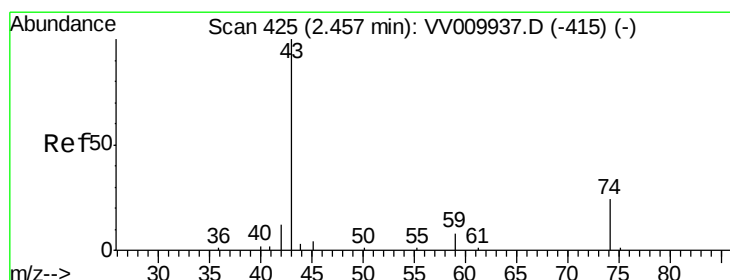
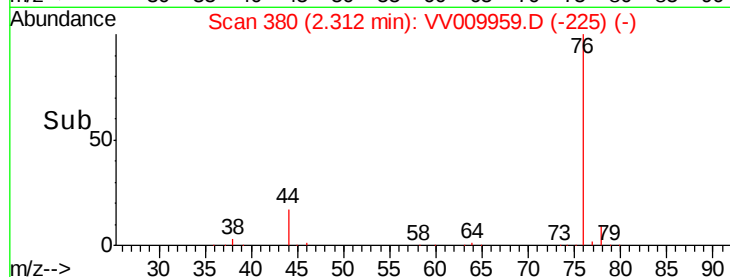
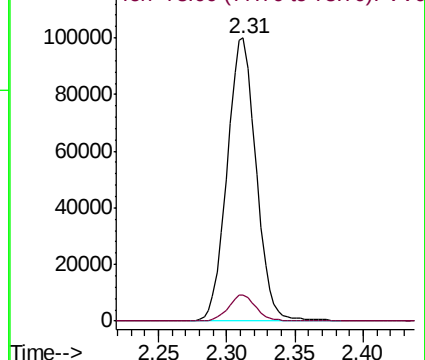
76 100

78 9.3 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0



#15

Methyl Acetate

Concen: 24.234 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.01 min

Lab File: VV009959.D

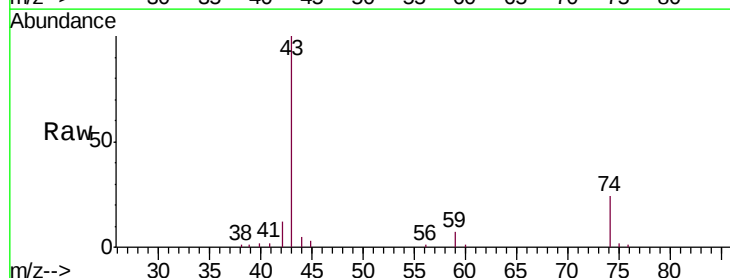
Acq: 28 Mar 2019 11:18

Tgt Ion: 43 Resp: 30068

Ion Ratio Lower Upper

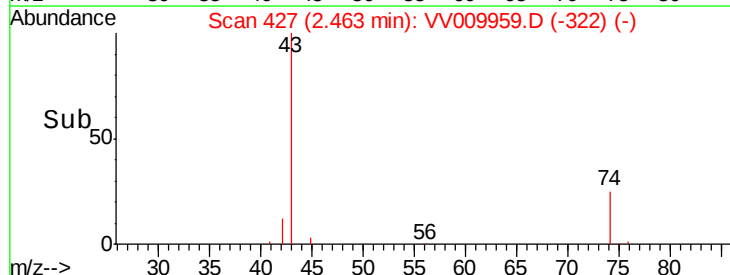
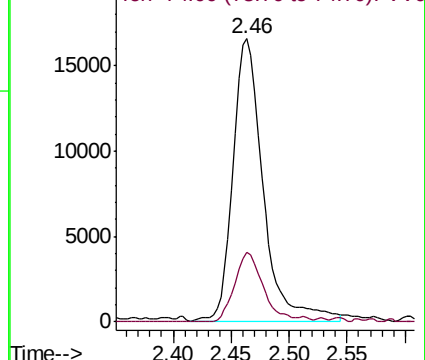
43 100

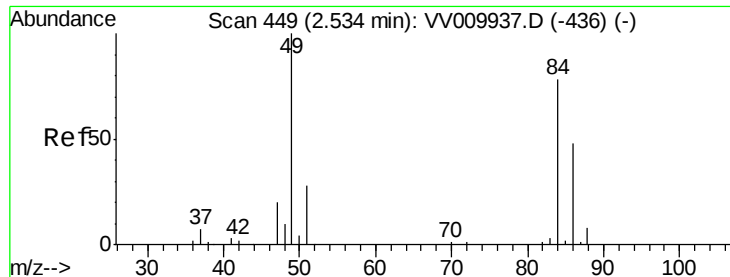
74 23.0 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0

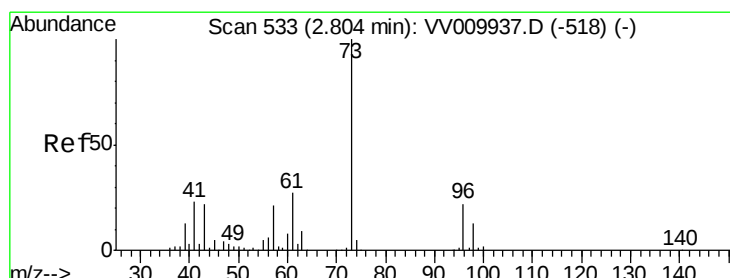
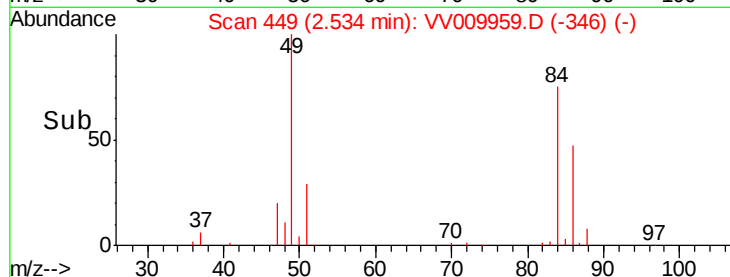
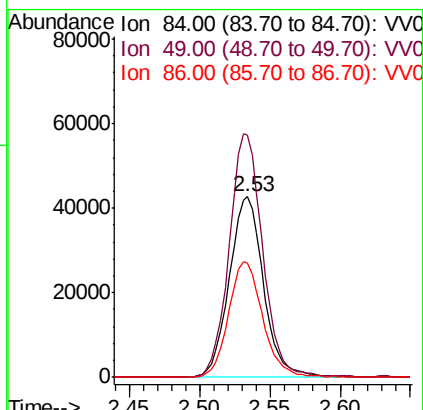
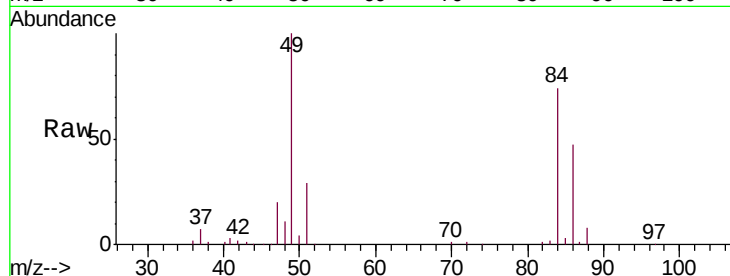




#16
Methylene chloride
Concen: 23.801 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV009959.D
Acq: 28 Mar 2019 11:18

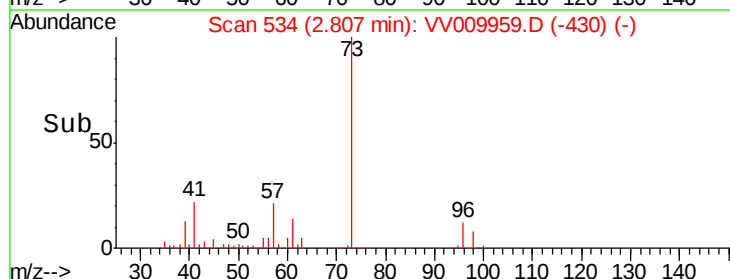
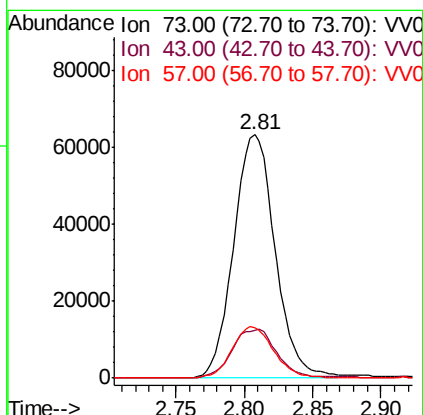
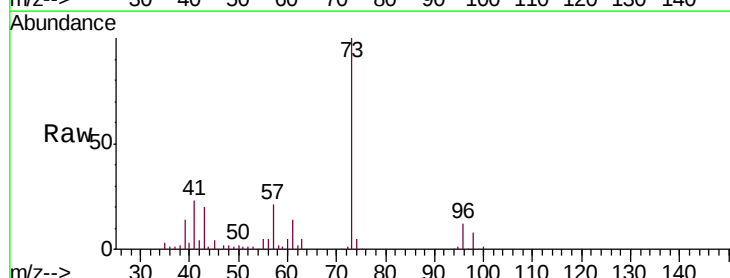
Instrument :
MSVOA_V
ClientSampleId :
VSTD02569

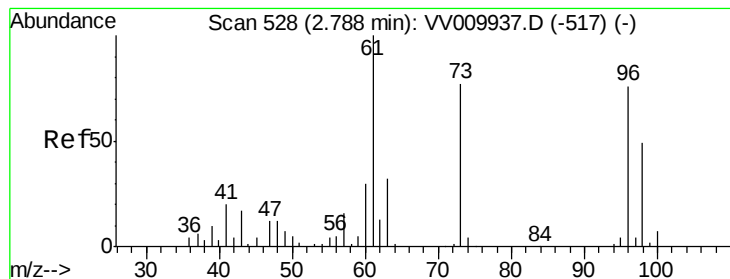
Tgt Ion: 84 Resp: 72515
Ion Ratio Lower Upper
84 100
49 134.4 90.4 167.8
86 63.0 44.0 81.6



#17
Methyl tert-butyl Ether
Concen: 22.654 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV009959.D
Acq: 28 Mar 2019 11:18

Tgt Ion: 73 Resp: 133780
Ion Ratio Lower Upper
73 100
43 21.5 17.0 25.6
57 21.2 18.0 27.0





#18

trans-1,2-Dichloroethene

Concen: 24.367 ug/L

RT: 2.79 min Scan# 528

Delta R.T. 0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

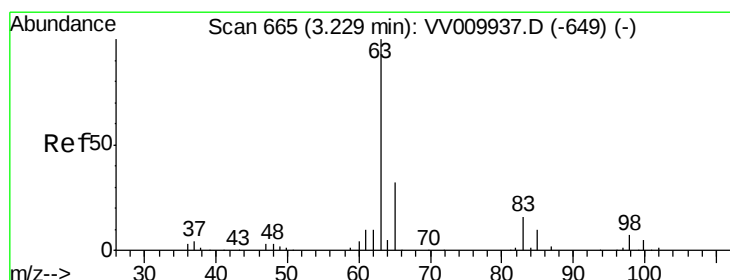
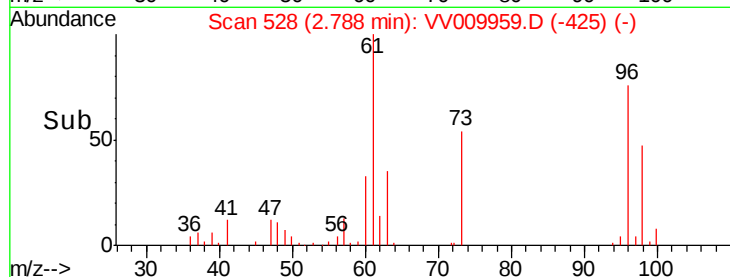
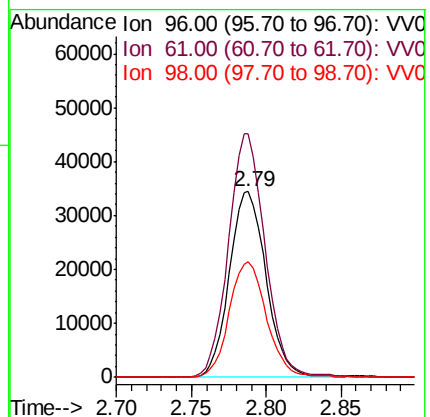
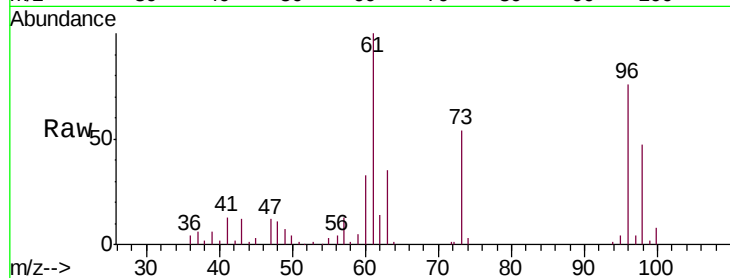
Tgt Ion: 96 Resp: 59070

Ion Ratio Lower Upper

96 100

61 131.1 96.8 179.8

98 62.1 46.1 85.7



#19

1,1-Dichloroethane

Concen: 24.534 ug/L

RT: 3.23 min Scan# 664

Delta R.T. -0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

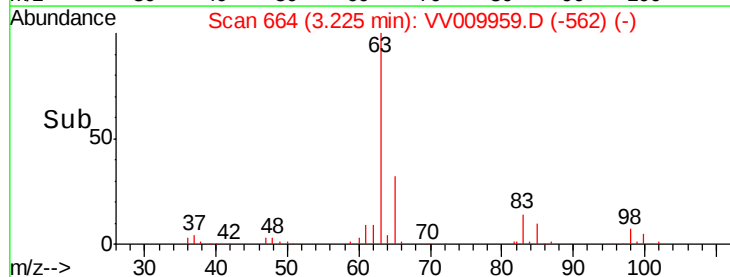
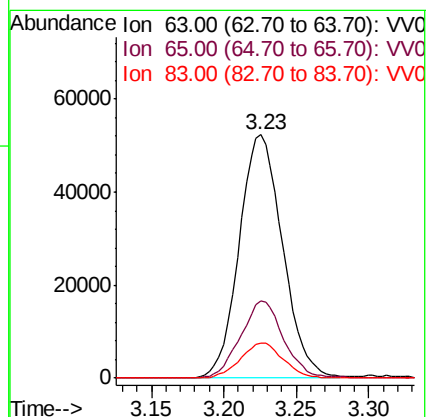
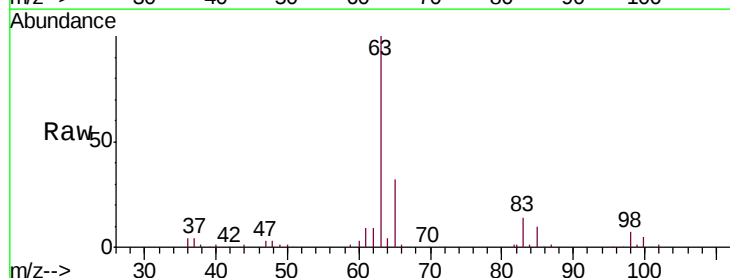
Tgt Ion: 63 Resp: 108766

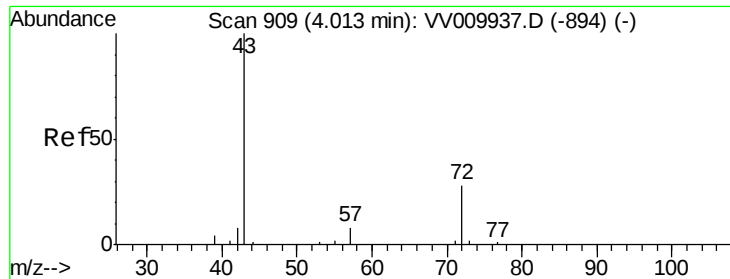
Ion Ratio Lower Upper

63 100

65 31.9 23.2 43.0

83 14.4 11.3 21.1





#21

2-Butanone

Concen: 45.540 ug/L

RT: 4.03 min Scan# 913

Delta R.T. 0.01 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

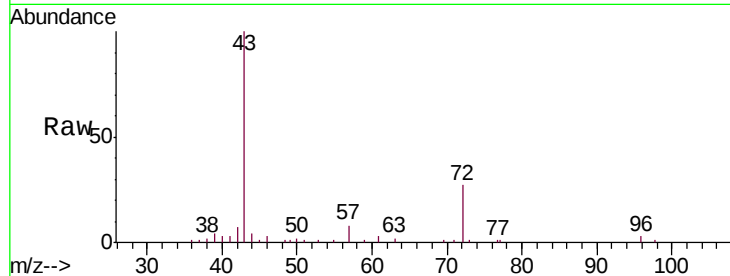
VSTD02569

Tgt Ion: 43 Resp: 42961

Ion Ratio Lower Upper

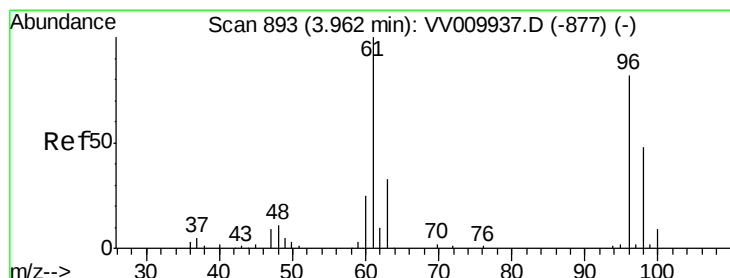
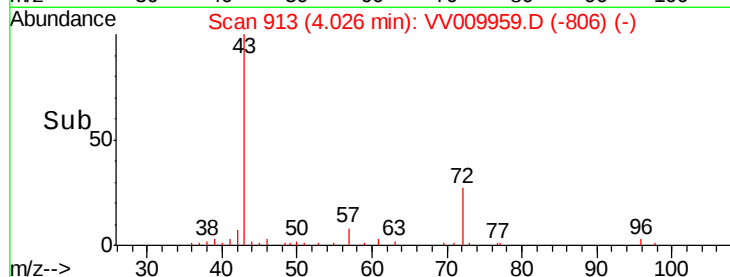
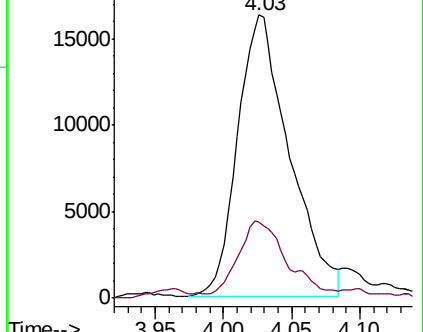
43 100

72 20.6 11.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VV009937.D (-894) (-)

Ion 72.00 (71.70 to 72.70): VV009937.D (-894) (-)



#22

cis-1,2-Dichloroethene

Concen: 24.597 ug/L

RT: 3.96 min Scan# 892

Delta R.T. -0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

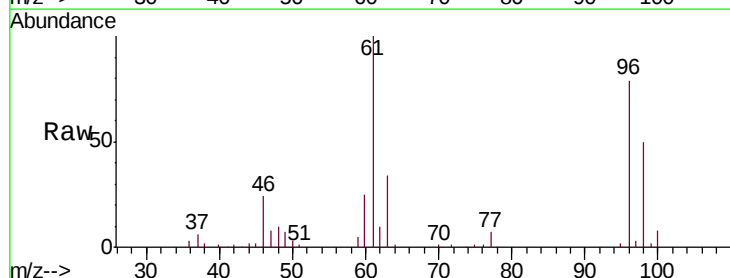
Tgt Ion: 96 Resp: 65838

Ion Ratio Lower Upper

96 100

61 126.7 91.4 169.8

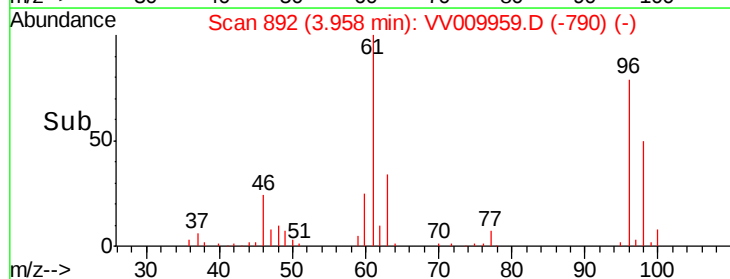
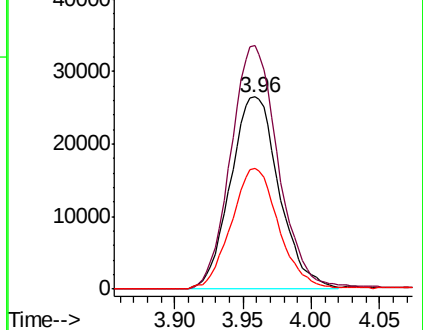
98 62.8 48.0 89.2

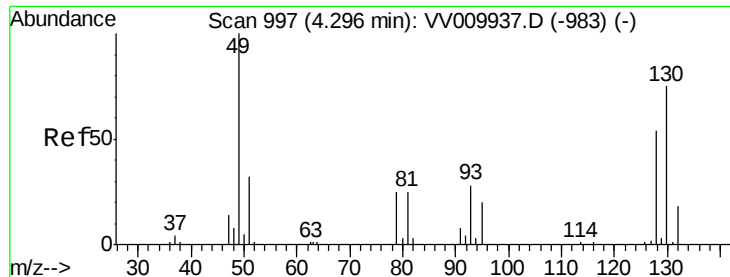


Abundance Ion 96.00 (95.70 to 96.70): VV009937.D (-877) (-)

Ion 61.00 (60.70 to 61.70): VV009937.D (-877) (-)

Ion 98.00 (97.70 to 98.70): VV009937.D (-877) (-)





#23

Bromochloromethane

Concen: 24.087 ug/L

RT: 4.30 min Scan# 997

Delta R.T. 0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

Instrument :
MSVOA_V
ClientSampleId :
VSTD02569

Tgt Ion:128 Resp: 29770

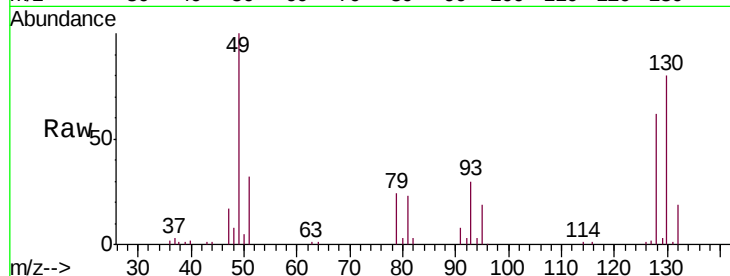
Ion Ratio Lower Upper

128 100

49 161.9 118.2 219.6

130 129.2 83.4 154.8

51 51.3 39.4 59.2

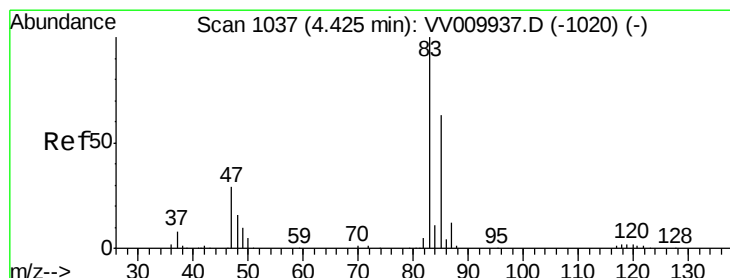
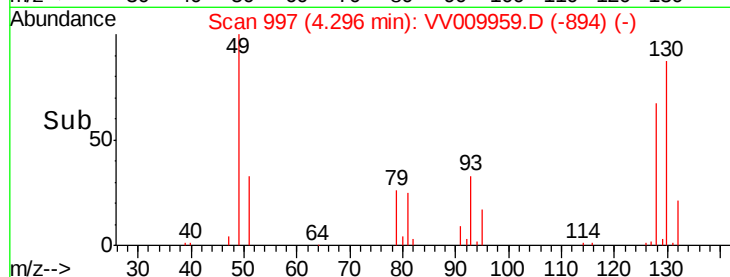
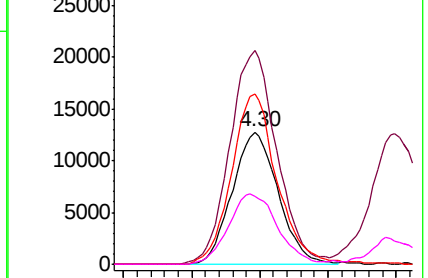


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VV0

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VV0



#25

Chloroform

Concen: 23.407 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VV009959.D

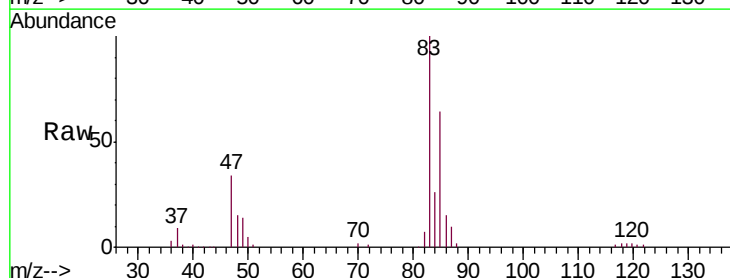
Acq: 28 Mar 2019 11:18

Tgt Ion: 83 Resp: 114735

Ion Ratio Lower Upper

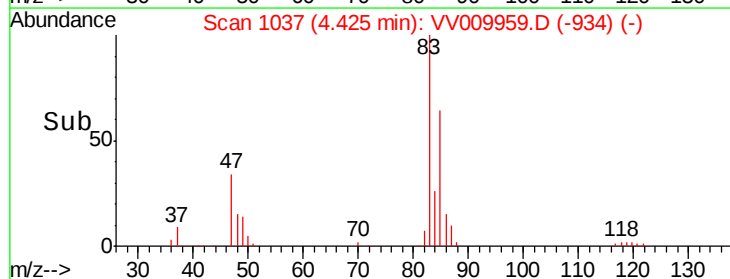
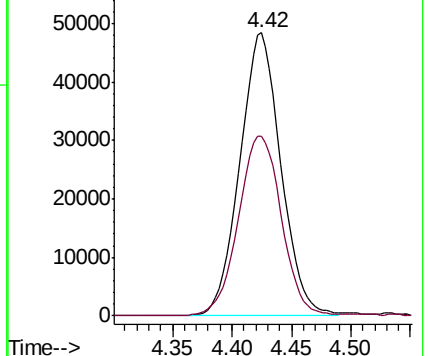
83 100

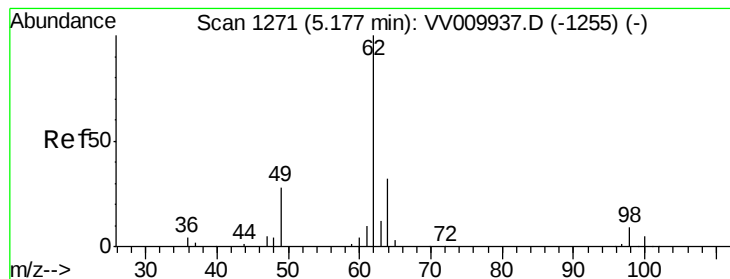
85 67.4 46.1 85.7



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0





#27

1,2-Dichloroethane

Concen: 23.182 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

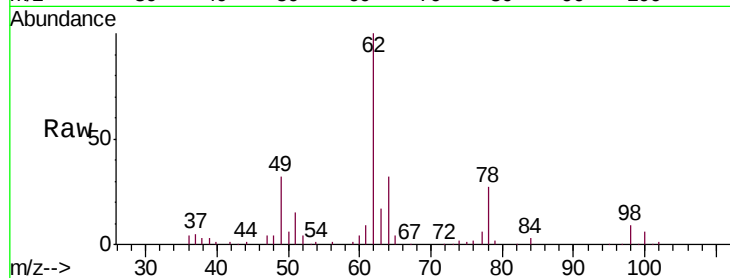
VSTD02569

Tgt Ion: 62 Resp: 80509

Ion Ratio Lower Upper

62 100

98 8.6 7.2 10.8



Abundance Ion 62.00 (61.70 to 62.70): VV009937.D (-1255) (-)

Ion 98.00 (97.70 to 98.70): VV009937.D (-1255) (-)

40000

30000

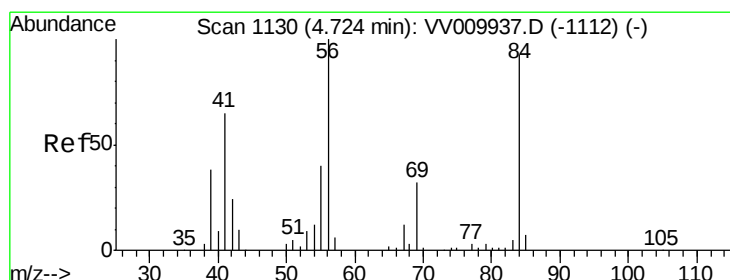
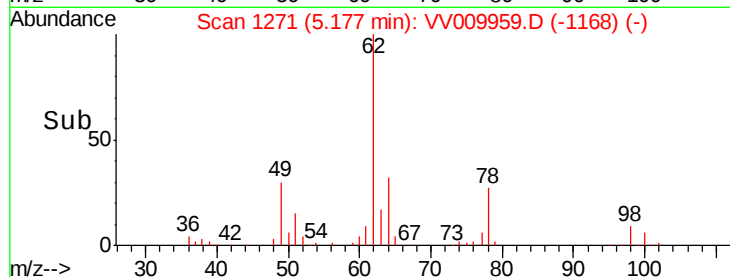
20000

10000

0

5.10 5.15 5.20 5.25

Time-->



#30

Cyclohexane

Concen: 27.991 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. -0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

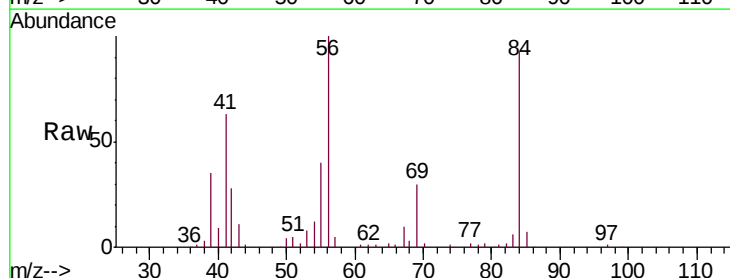
Tgt Ion: 56 Resp: 100498

Ion Ratio Lower Upper

56 100

69 29.6 24.5 36.7

84 92.8 75.6 113.4



Abundance Ion 56.00 (55.70 to 56.70): VV009937.D (-1112) (-)

Ion 69.00 (68.70 to 69.70): VV009937.D (-1112) (-)

Ion 84.00 (83.70 to 84.70): VV009937.D (-1112) (-)

50000

40000

30000

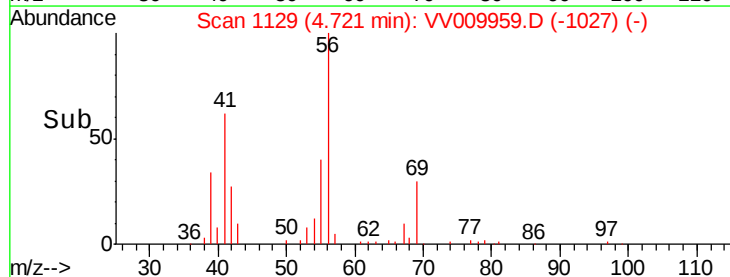
20000

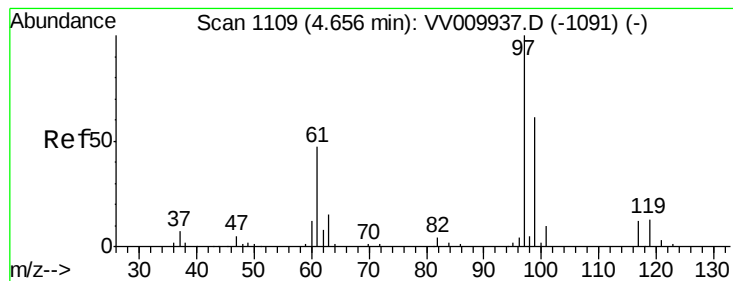
10000

0

4.60 4.65 4.70 4.75 4.80

Time-->





#31

1,1,1-Trichloroethane

Concen: 28.197 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

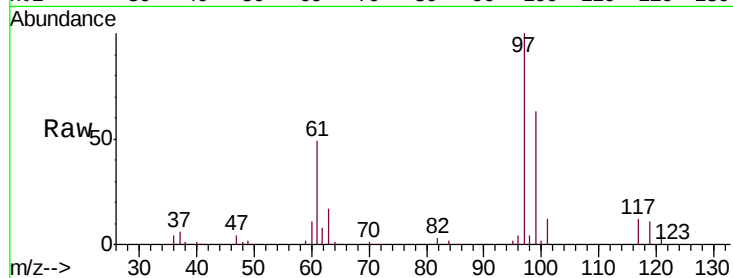
Tgt Ion: 97 Resp: 100480

Ion Ratio Lower Upper

97 100

99 63.6 51.5 77.3

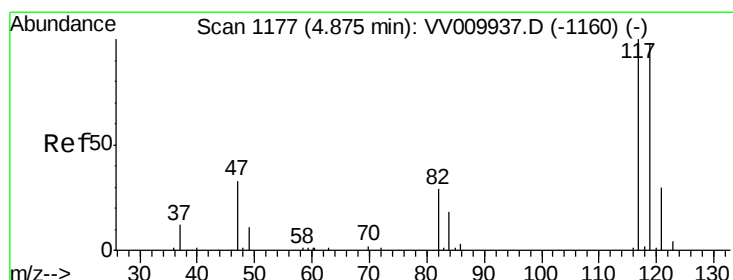
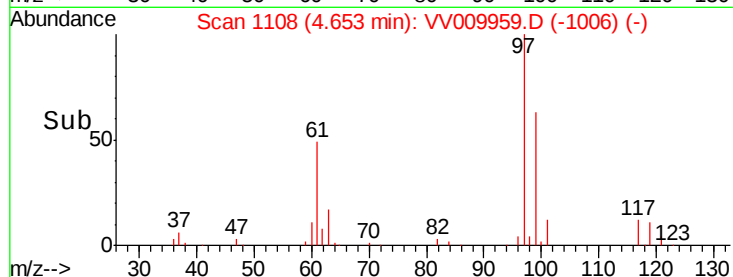
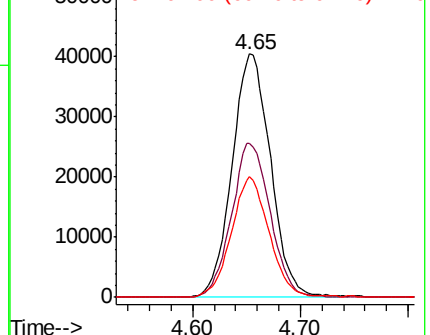
61 48.4 39.4 59.0



Abundance Ion 97.00 (96.70 to 97.70): VV009937.D (-1091) (-)

Ion 99.00 (98.70 to 99.70): VV009937.D (-1091) (-)

Ion 61.00 (60.70 to 61.70): VV009937.D (-1091) (-)



#32

Carbon tetrachloride

Concen: 27.594 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV009959.D

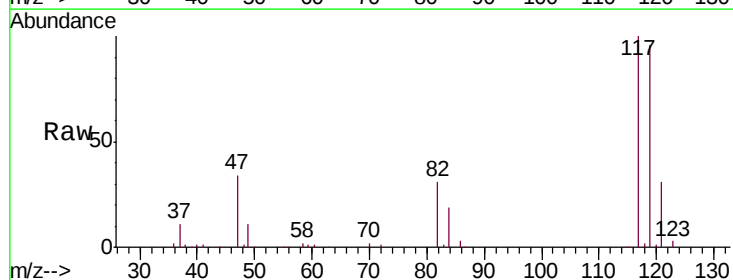
Acq: 28 Mar 2019 11:18

Tgt Ion: 117 Resp: 85469

Ion Ratio Lower Upper

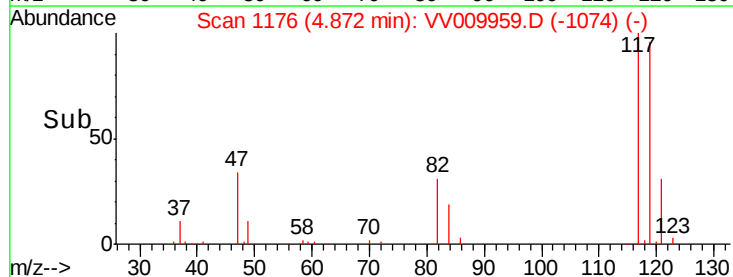
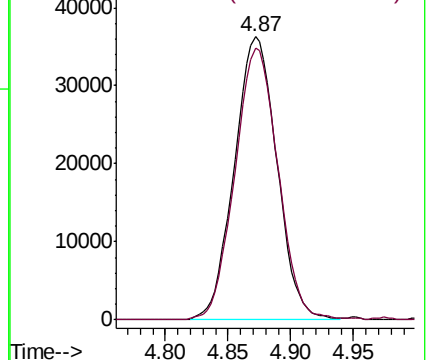
117 100

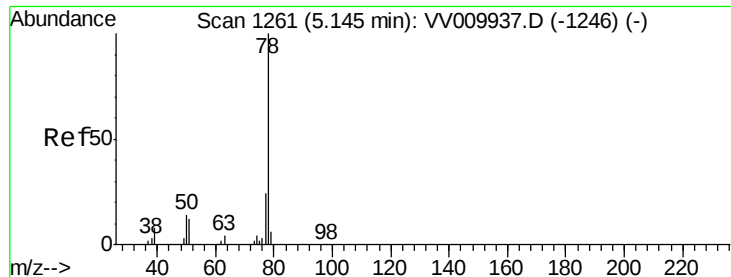
119 97.0 78.1 117.1



Abundance Ion 117.00 (116.70 to 117.70): VV009937.D (-1160) (-)

Ion 119.00 (118.70 to 119.70): VV009937.D (-1160) (-)





#34

Benzene

Concen: 25.361 ug/L

RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

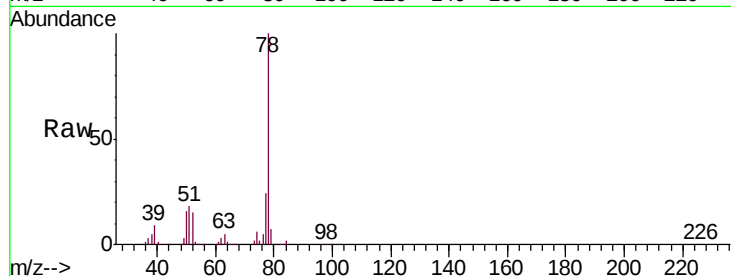
Instrument :

MSVOA_V

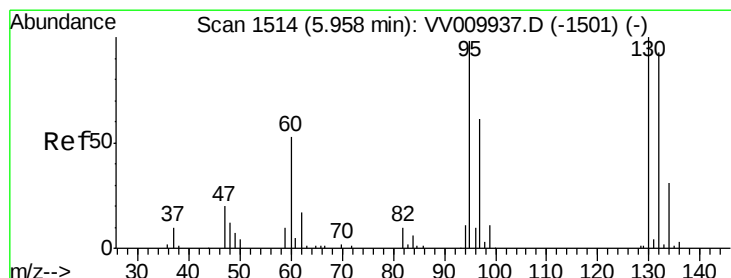
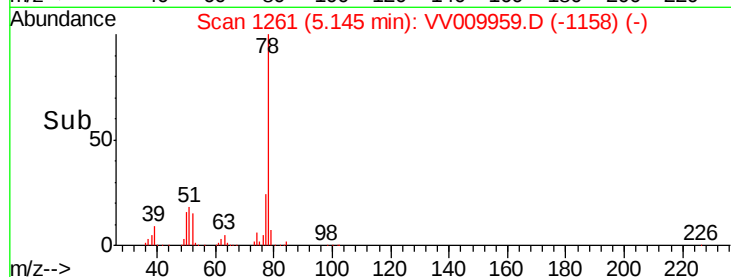
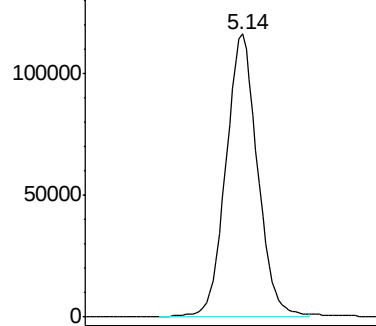
ClientSampleId :

VSTD02569

Tgt Ion: 78 Resp: 247982



Abundance Ion 78.00 (77.70 to 78.70): VV0



#35

Trichloroethene

Concen: 25.817 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

Tgt Ion: 95 Resp: 66589

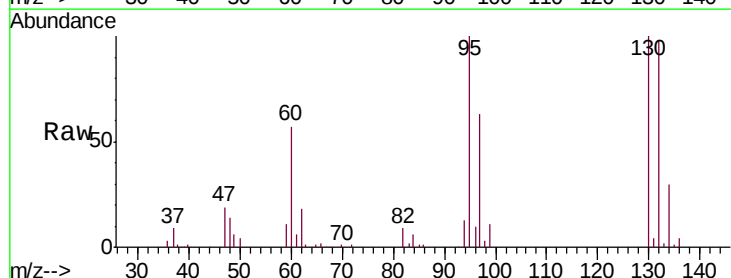
Ion	Ratio	Lower	Upper
95	100		
97	63.1	46.3	85.9
132	96.9	69.3	128.7
130	100.2	69.5	129.1

Abundance Ion 95.00 (94.70 to 95.70): VV0

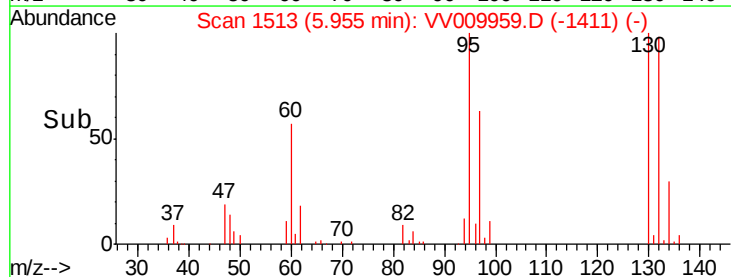
Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



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): V

Ion 130.00 (129.70 to 130.70): V

Ion 130.00 (129.70 to 130.70): V

Ion 130.00 (129.70 to 130.70): V

Ion 130.00 (129.70 to 130.70): V

Ion 130.00 (129.70 to 130.70): V

Ion 130.00 (129.70 to 130.70): V

Ion 130.00 (129.70 to 130.70): V

Ion 130.00 (129.70 to 130.70): V

Ion 130.00 (129.70 to 130.70): V

Ion 130.00 (129.70 to 130.70): V

Ion 130.00 (129.70 to 130.70): V

Ion 130.00 (129.70 to 130.70): V

Ion 130.00 (129.70 to 130.70): V

Ion 130.00 (129.70 to 130.70): V

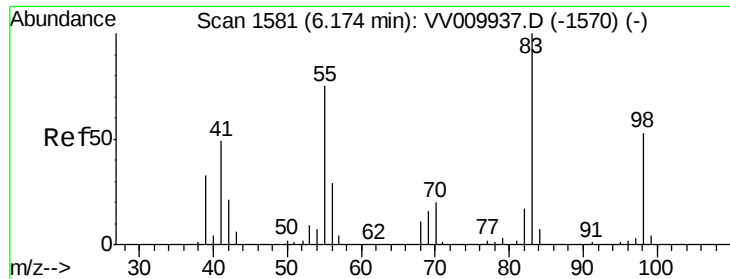
Ion 130.00 (129.70 to 130.70): V

Ion 130.00 (129.70 to 130.70): V

Ion 130.00 (129.70 to 130.70): V

Ion 130.00 (129.70 to 130.70): V

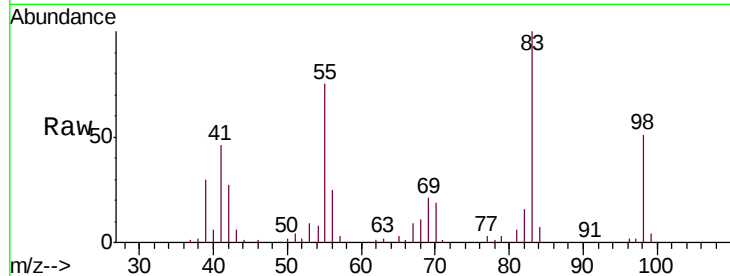
Ion 130.00 (129.70 to 130.70): V



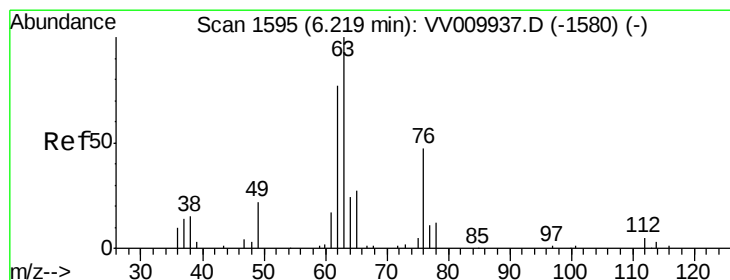
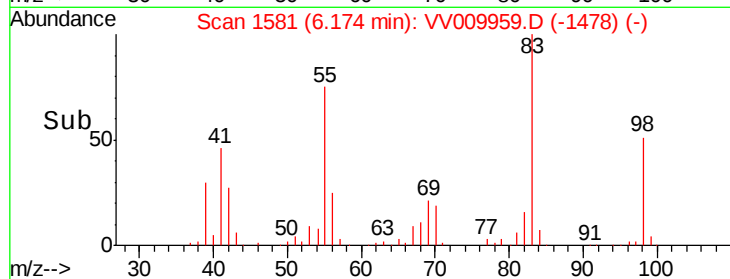
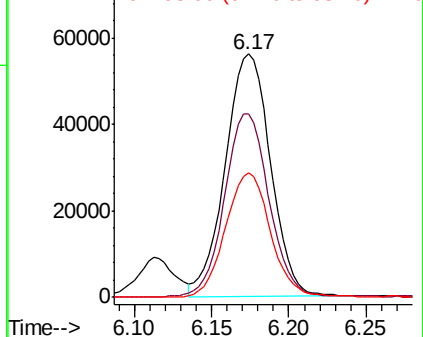
#36
Methylcyclohexane
Concen: 28.044 ug/L
RT: 6.17 min Scan# 1581
Delta R.T. 0.00 min
Lab File: VV009959.D
Acq: 28 Mar 2019 11:18

Instrument :
MSVOA_V
ClientSampleId :
VSTD02569

Tgt Ion: 83 Resp: 113486
Ion Ratio Lower Upper
83 100
55 74.5 57.3 85.9
98 51.7 39.2 58.8

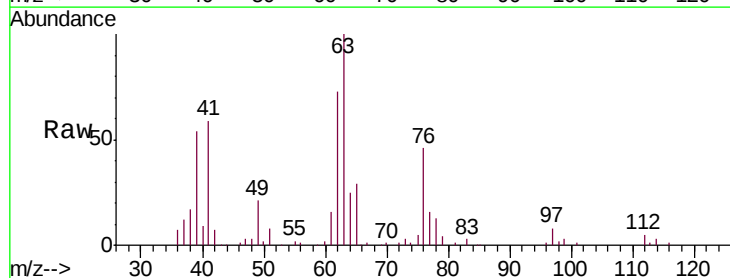


Abundance Ion 83.00 (82.70 to 83.70): VV0
Ion 55.00 (54.70 to 55.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

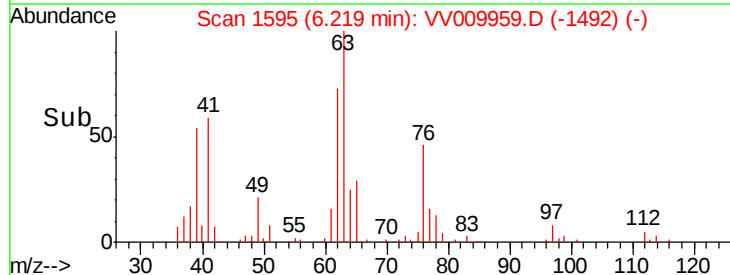
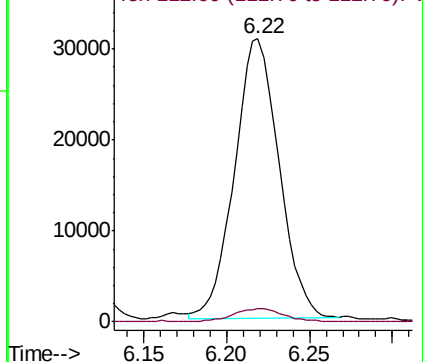


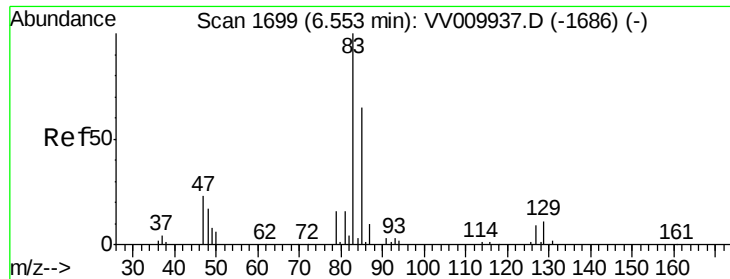
#40
1,2-Dichloropropane
Concen: 23.502 ug/L
RT: 6.22 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VV009959.D
Acq: 28 Mar 2019 11:18

Tgt Ion: 63 Resp: 57424
Ion Ratio Lower Upper
63 100
112 5.3 2.1 3.1#



Abundance Ion 63.00 (62.70 to 63.70): VV0
Ion 112.00 (111.70 to 112.70): V





#41

Bromodichloromethane

Concen: 25.357 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

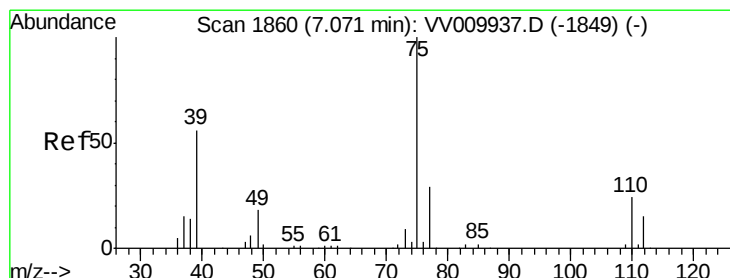
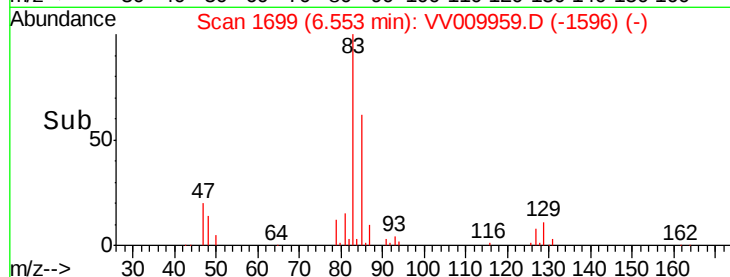
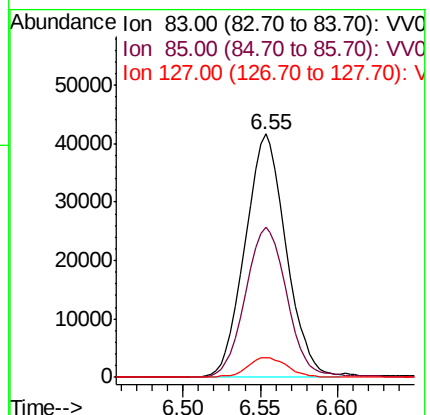
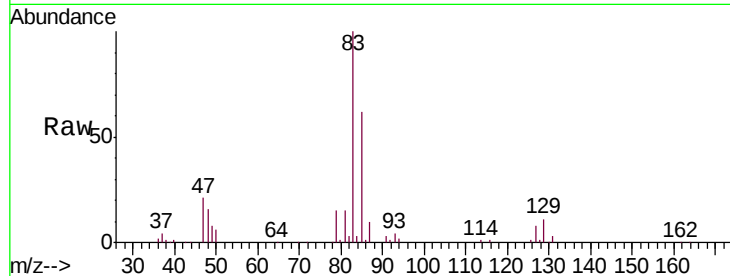
Tgt Ion: 83 Resp: 77050

Ion Ratio Lower Upper

83 100

85 61.6 45.6 84.8

127 8.3 6.2 9.4



#42

cis-1,3-Dichloropropene

Concen: 24.893 ug/L

RT: 7.07 min Scan# 1859

Delta R.T. -0.00 min

Lab File: VV009959.D

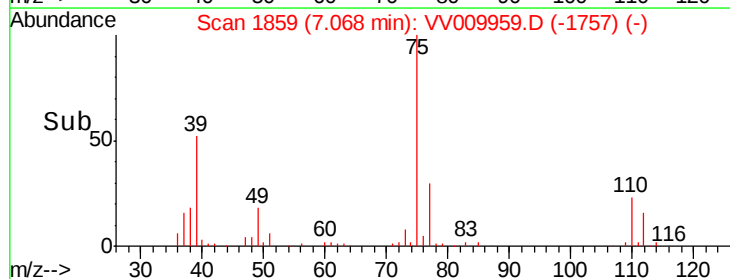
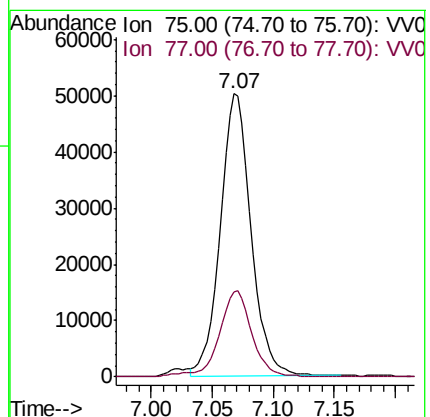
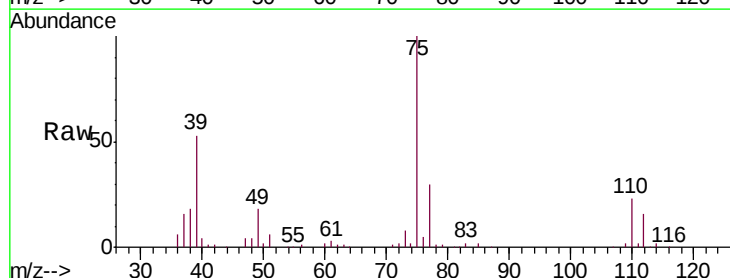
Acq: 28 Mar 2019 11:18

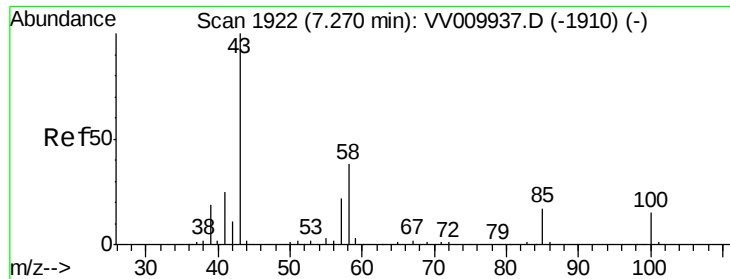
Tgt Ion: 75 Resp: 88677

Ion Ratio Lower Upper

75 100

77 30.1 21.8 40.6

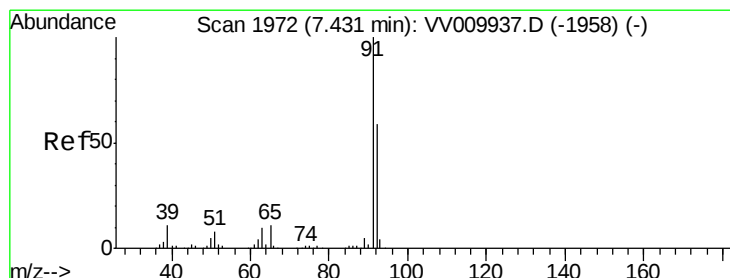
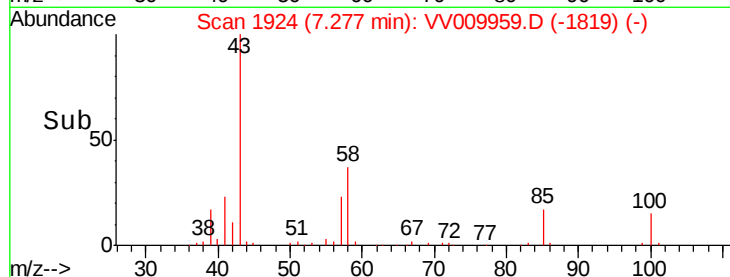
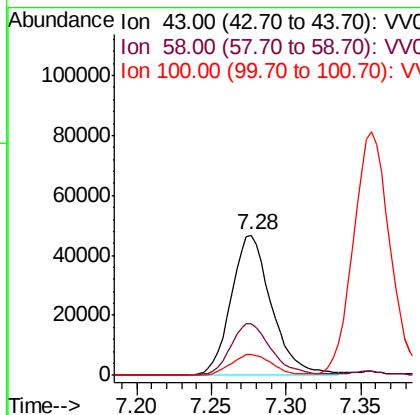
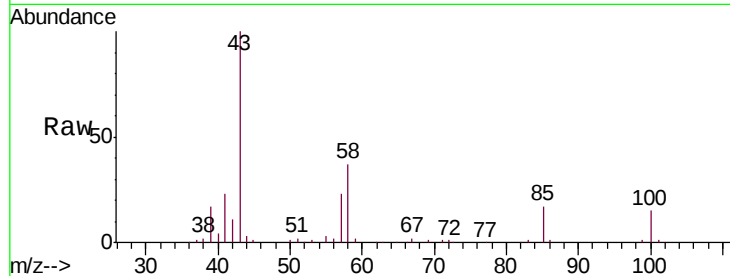




#43
 4-Methyl-2-pentanone
 Concen: 50.637 ug/L
 RT: 7.28 min Scan# 1924
 Delta R.T. 0.01 min
 Lab File: VV009959.D
 Acq: 28 Mar 2019 11:18

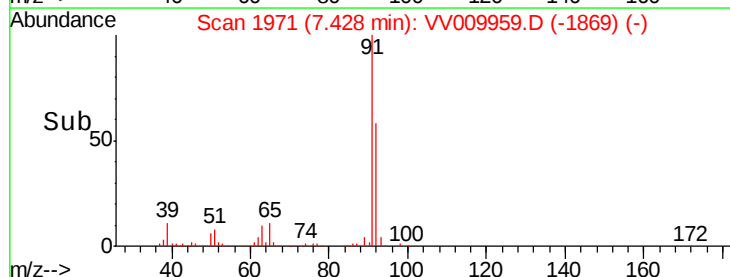
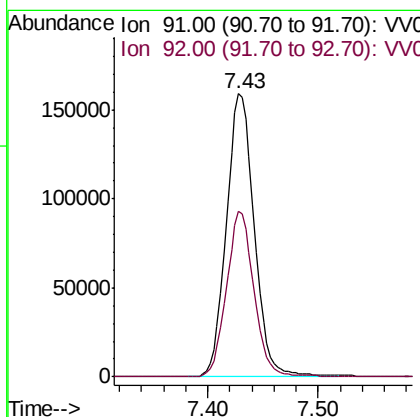
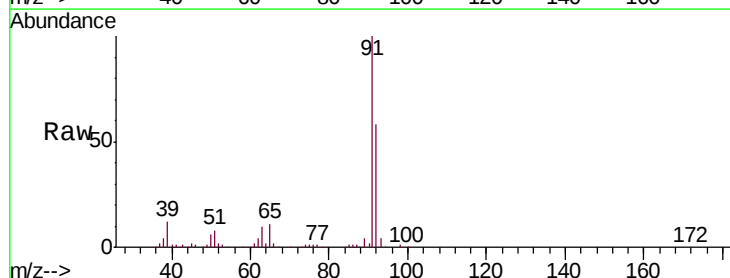
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

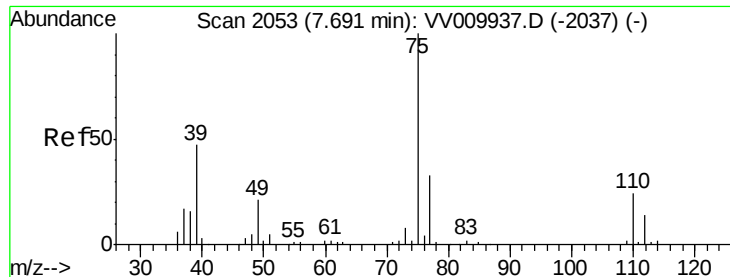
Tgt Ion: 43 Resp: 88293
 Ion Ratio Lower Upper
 43 100
 58 37.0 29.4 44.2
 100 15.1 12.2 18.4



#44
 Toluene
 Concen: 25.946 ug/L
 RT: 7.43 min Scan# 1971
 Delta R.T. -0.00 min
 Lab File: VV009959.D
 Acq: 28 Mar 2019 11:18

Tgt Ion: 91 Resp: 279693
 Ion Ratio Lower Upper
 91 100
 92 58.3 41.0 76.2





#45

trans-1,3-Dichloropropene

Concen: 25.746 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

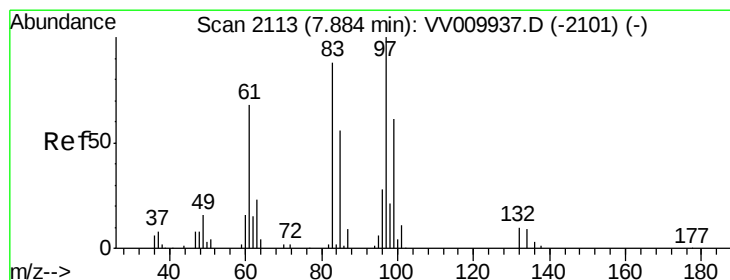
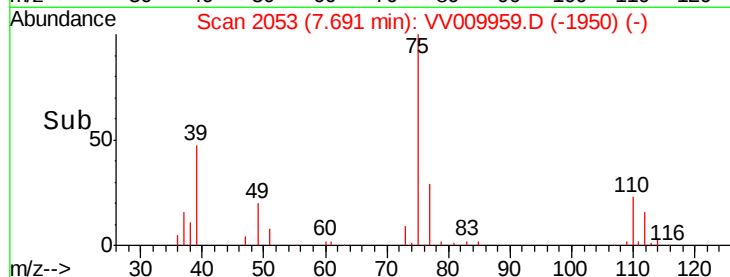
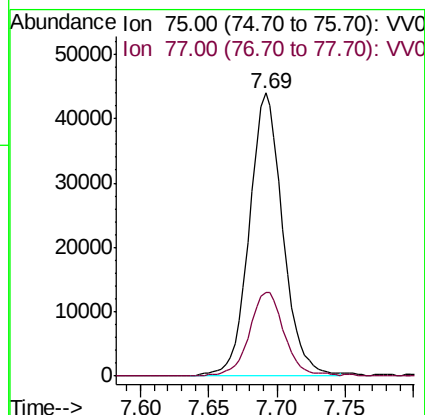
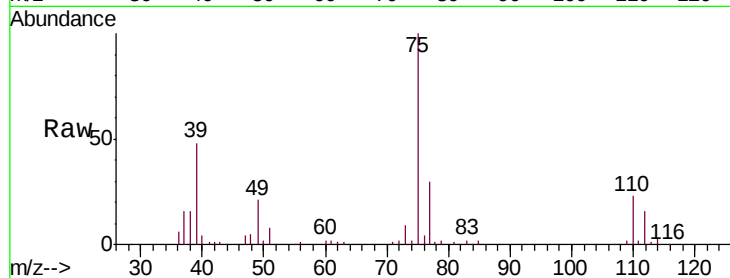
VSTD02569

Tgt Ion: 75 Resp: 75079

Ion Ratio Lower Upper

75 100

77 29.6 20.7 38.5



#46

1,1,2-Trichloroethane

Concen: 24.010 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

Tgt Ion: 97 Resp: 48519

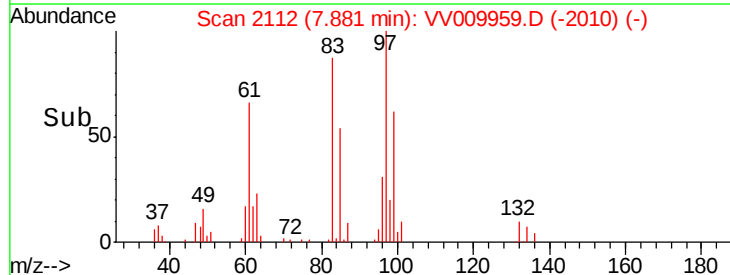
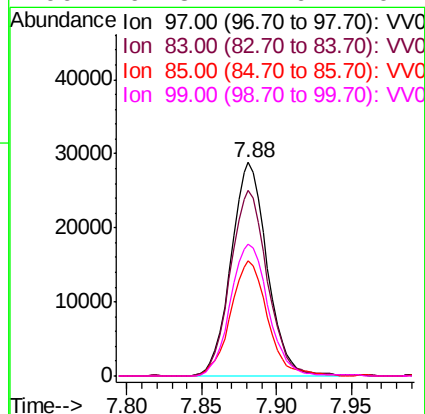
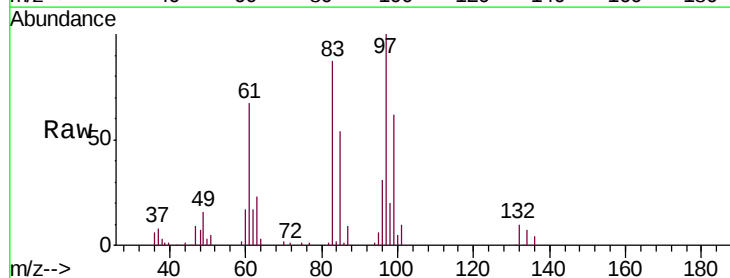
Ion Ratio Lower Upper

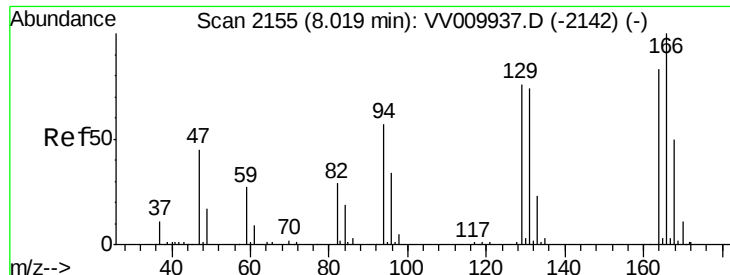
97 100

83 87.0 59.6 110.8

85 53.7 39.2 72.8

99 61.8 42.6 79.2





#47

Tetrachloroethene

Concen: 25.680 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

Instrument :
MSVOA_V
ClientSampleId :
VSTD02569

Tgt Ion:164 Resp: 52266

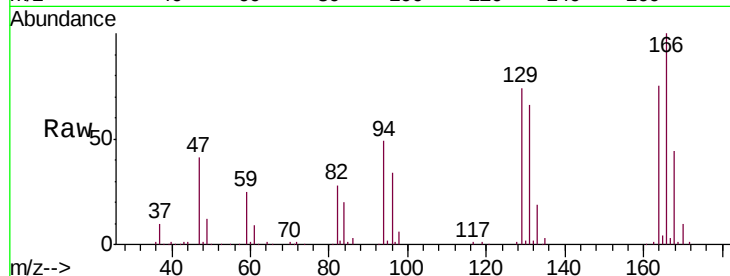
Ion Ratio Lower Upper

164 100

129 98.8 64.9 120.5

131 88.2 62.0 115.2

166 133.9 82.9 153.9



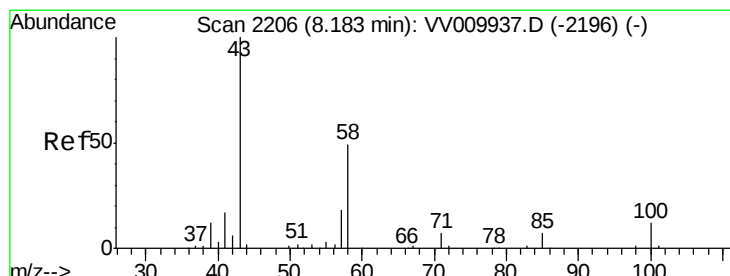
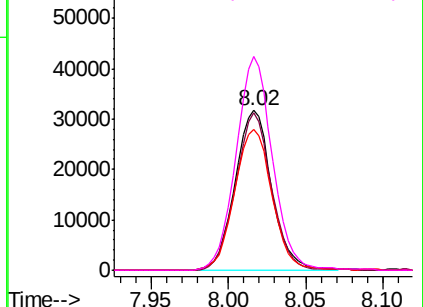
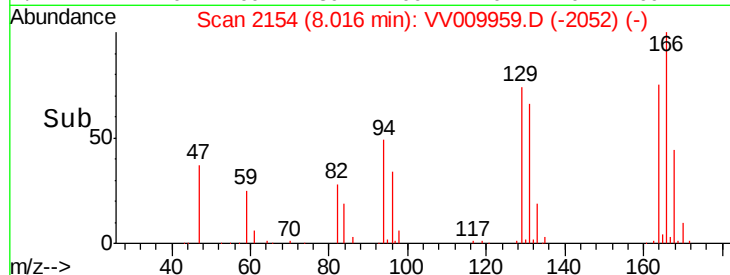
Abundance

Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#49

2-Hexanone

Concen: 58.725 ug/L

RT: 8.19 min Scan# 2207

Delta R.T. 0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

Tgt Ion: 43 Resp: 69204

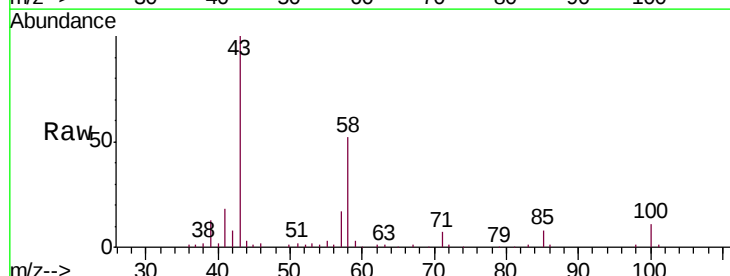
Ion Ratio Lower Upper

43 100

58 49.9 42.0 63.0

57 16.9 12.9 19.3

100 10.5 9.1 13.7



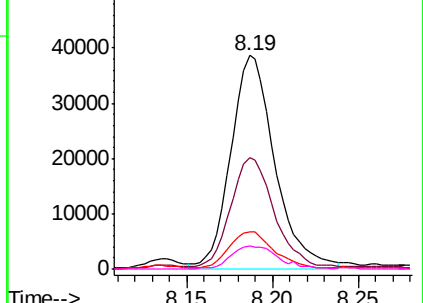
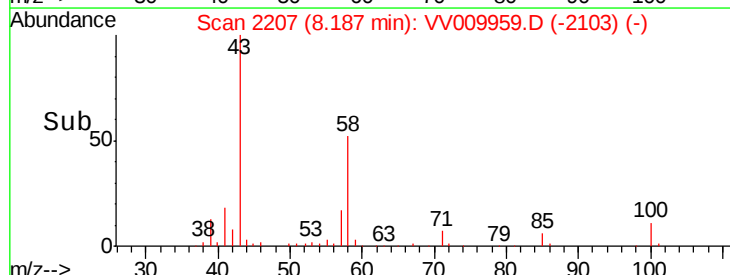
Abundance

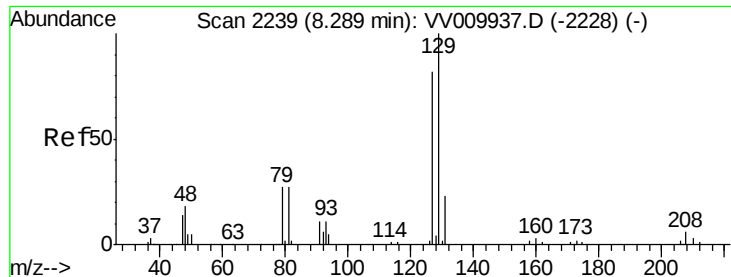
Ion 43.00 (42.70 to 43.70): VV0

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

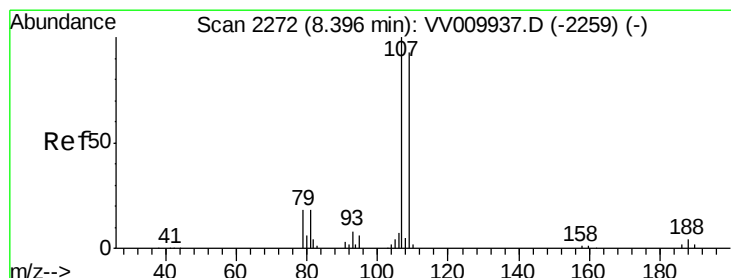
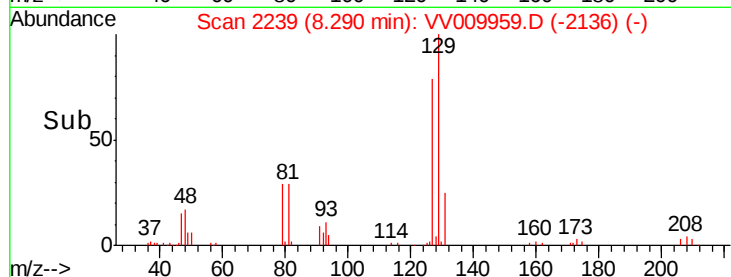
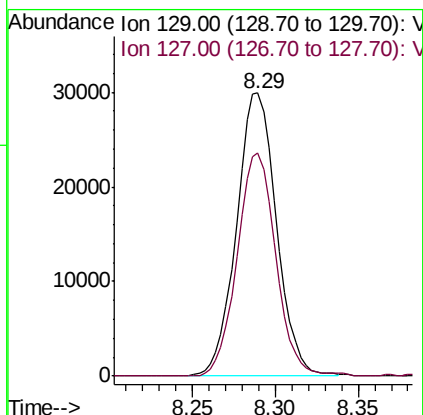
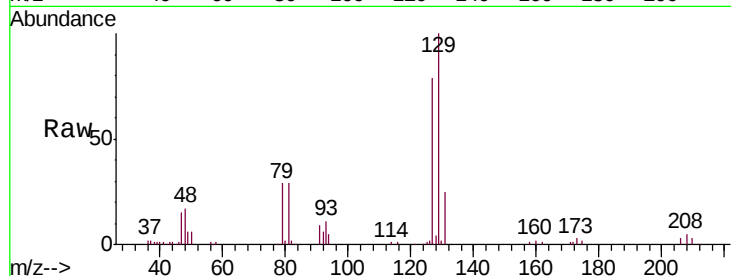




#50
Dibromochloromethane
Concen: 23.944 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV009959.D
Acq: 28 Mar 2019 11:18

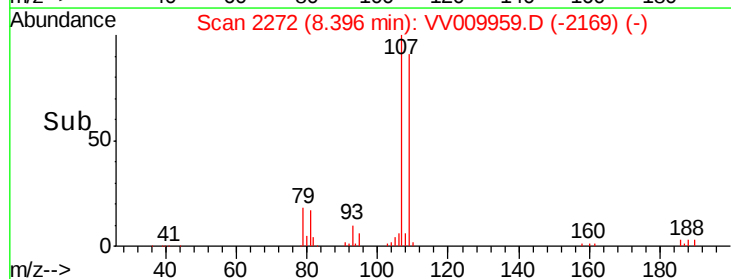
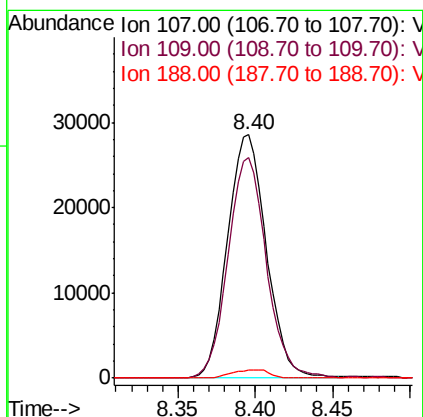
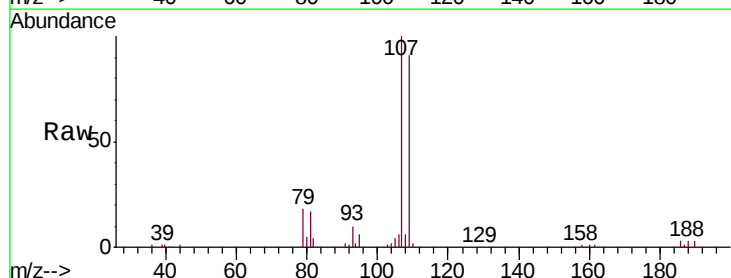
Instrument :
MSVOA_V
ClientSampleId :
VSTD02569

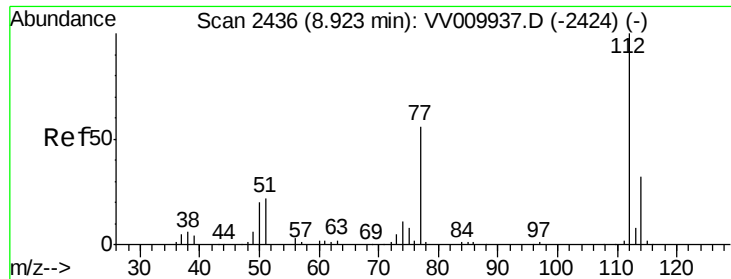
Tgt Ion:129 Resp: 50171
Ion Ratio Lower Upper
129 100
127 79.0 57.9 107.5



#51
1,2-Dibromoethane
Concen: 25.369 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV009959.D
Acq: 28 Mar 2019 11:18

Tgt Ion:107 Resp: 49778
Ion Ratio Lower Upper
107 100
109 90.7 61.8 114.8
188 3.1 3.5 5.3#





#52

Chlorobenzene

Concen: 24.578 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

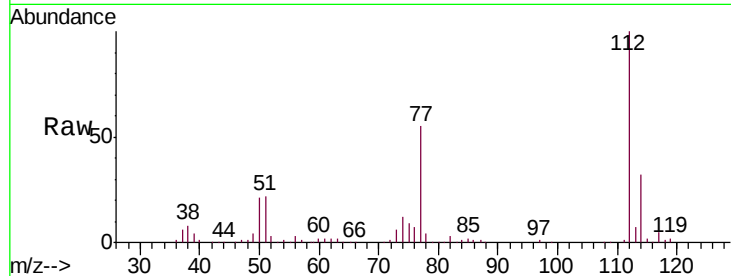
Tgt Ion: 112 Resp: 176377

Ion Ratio Lower Upper

112 100

77 55.3 46.8 70.2

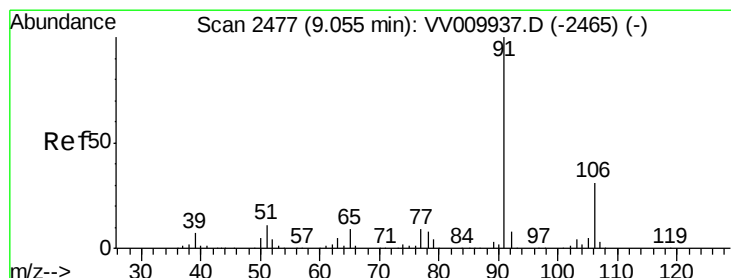
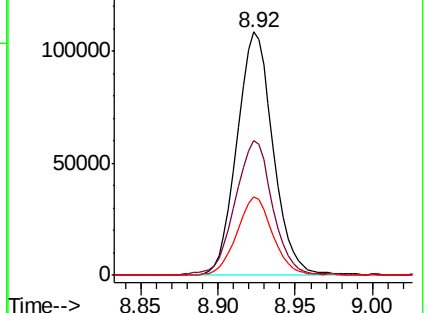
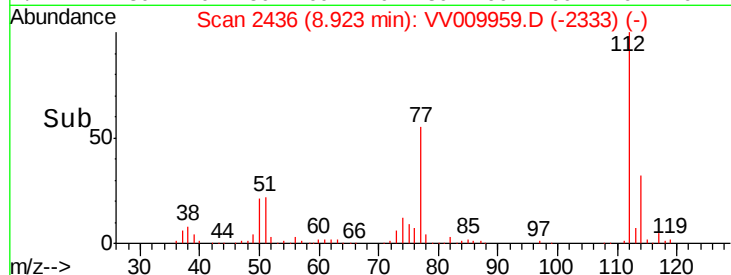
114 32.1 22.3 41.5



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: 25.908 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV009959.D

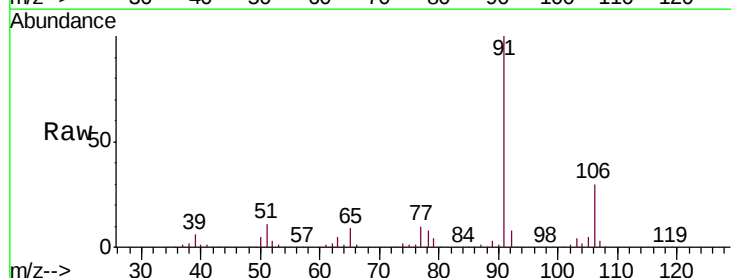
Acq: 28 Mar 2019 11:18

Tgt Ion: 91 Resp: 308072

Ion Ratio Lower Upper

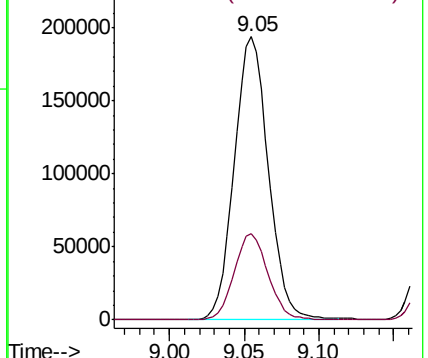
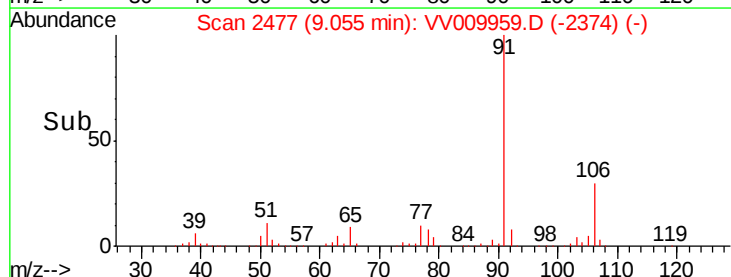
91 100

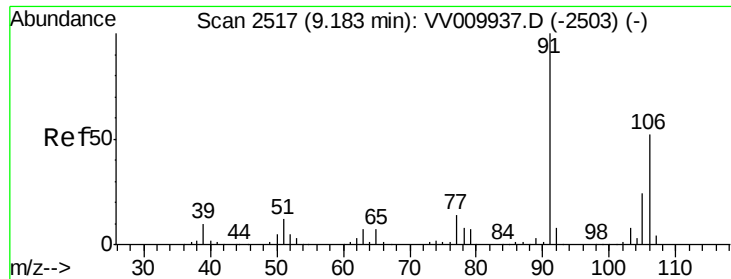
106 30.3 22.3 41.3



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 25.077 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

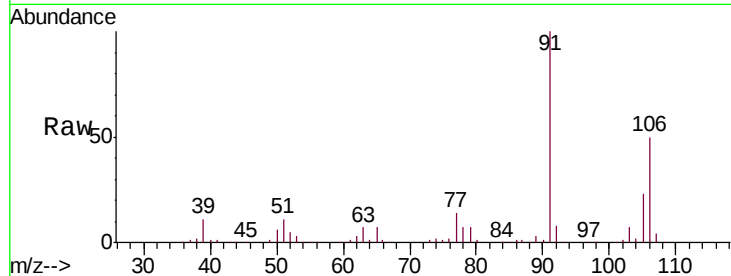
VSTD02569

Tgt Ion:106 Resp: 117119

Ion Ratio Lower Upper

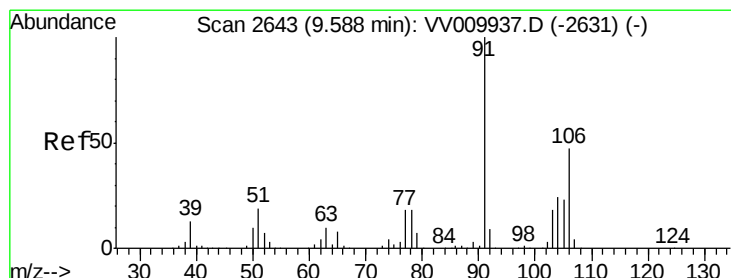
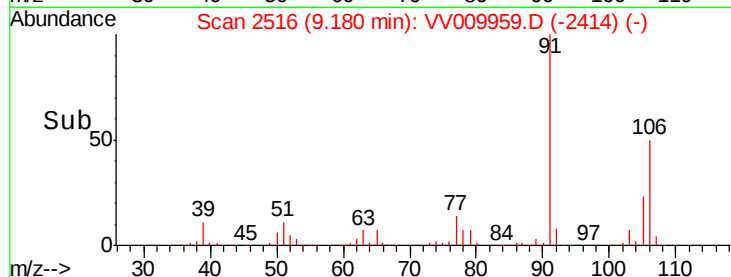
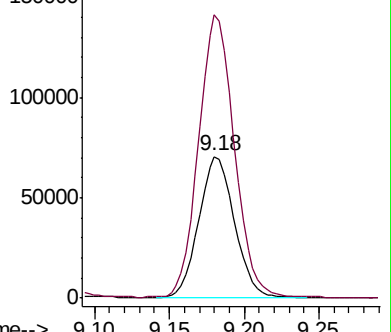
106 100

91 199.8 130.0 241.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

o-xylene

Concen: 24.587 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV009959.D

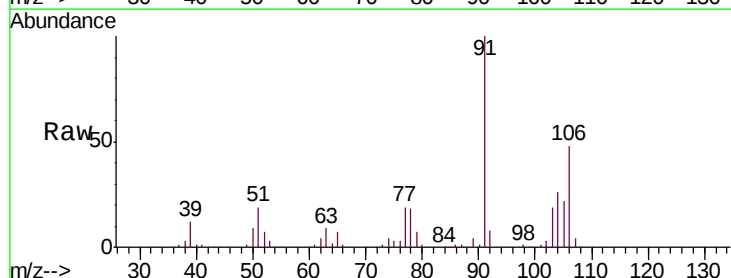
Acq: 28 Mar 2019 11:18

Tgt Ion:106 Resp: 111459

Ion Ratio Lower Upper

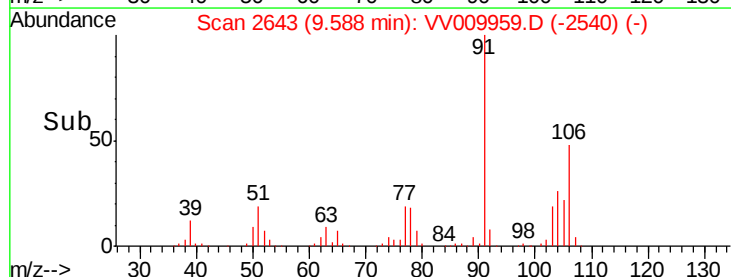
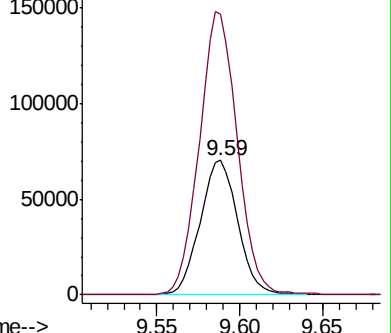
106 100

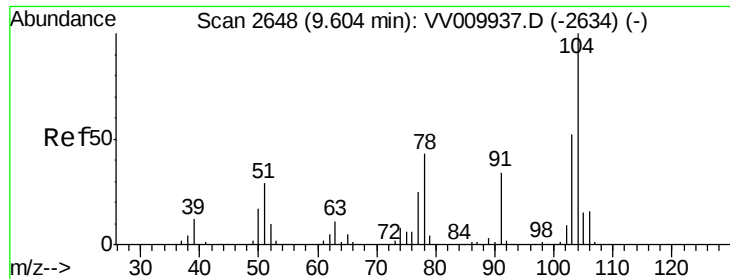
91 208.7 144.3 268.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#56

Styrene

Concen: 23.784 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

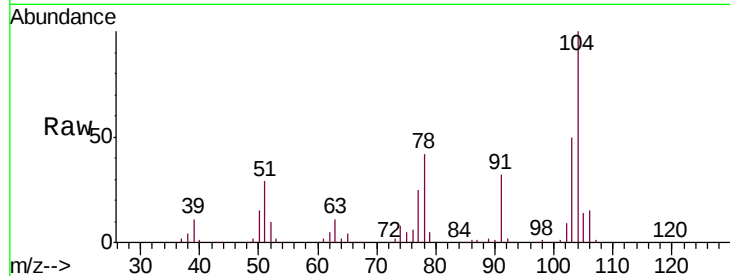
VSTD02569

Tgt Ion:104 Resp: 185198

Ion Ratio Lower Upper

104 100

78 42.5 29.3 54.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

9.60

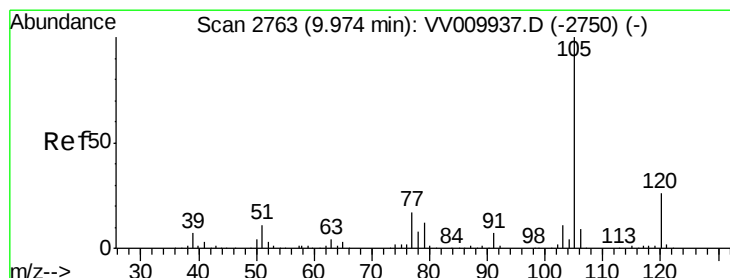
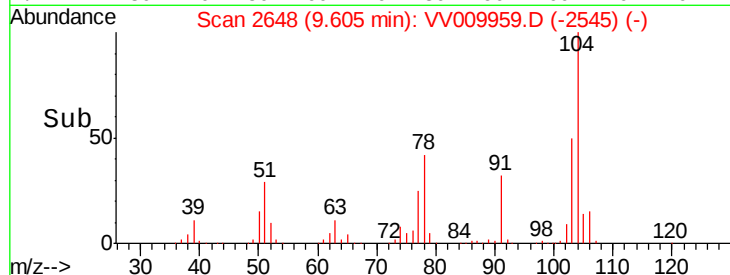
100000

50000

0

Time-->

9.55 9.60 9.65



#57

Isopropylbenzene

Concen: 26.099 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

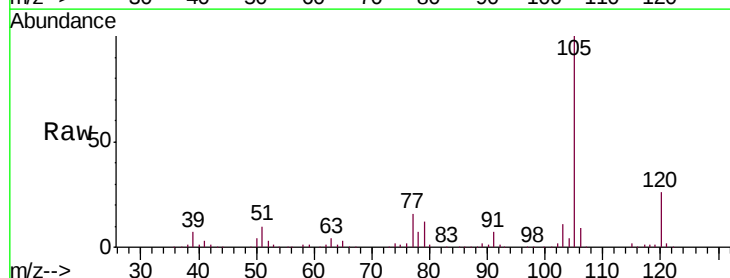
Tgt Ion:105 Resp: 306931

Ion Ratio Lower Upper

105 100

120 25.8 20.8 31.2

77 16.5 13.0 19.4



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): VV0

250000

200000

150000

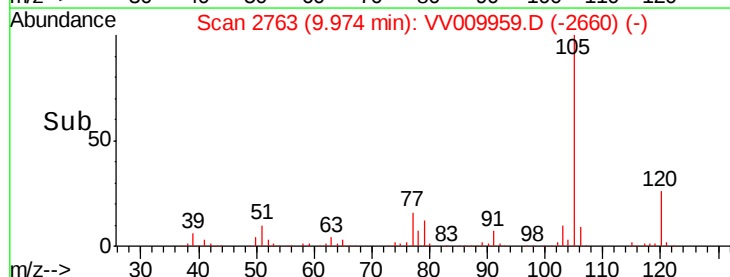
100000

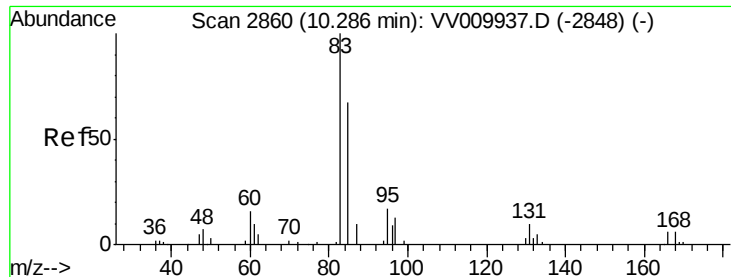
50000

0

Time-->

9.90 9.97 10.00

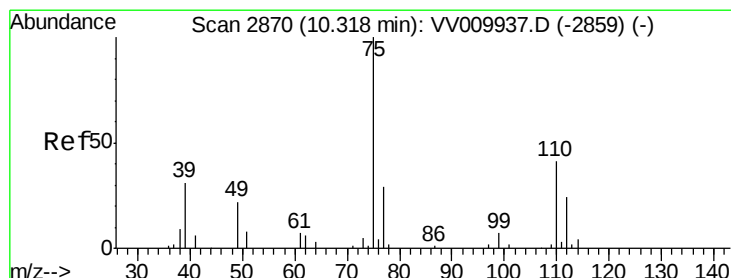
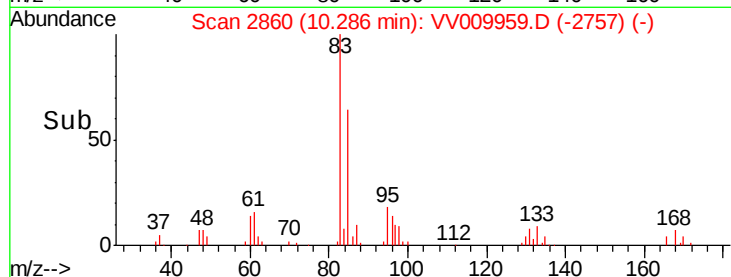
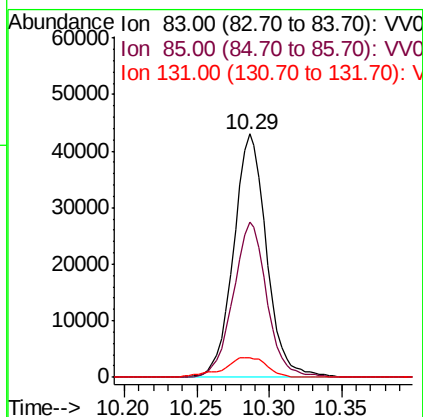
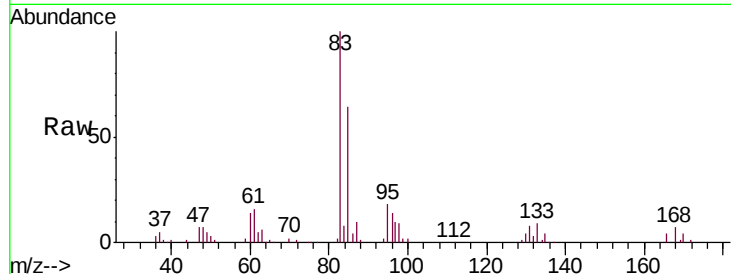




#58
 1,1,2,2-Tetrachloroethane
 Concen: 24.894 ug/L
 RT: 10.29 min Scan# 2860
 Delta R.T. 0.00 min
 Lab File: VV009959.D
 Acq: 28 Mar 2019 11:18

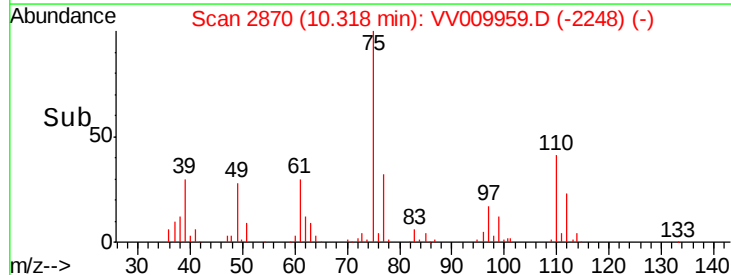
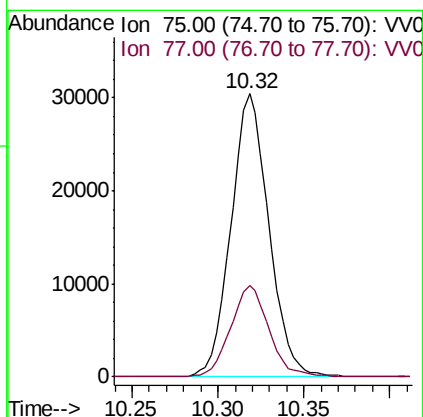
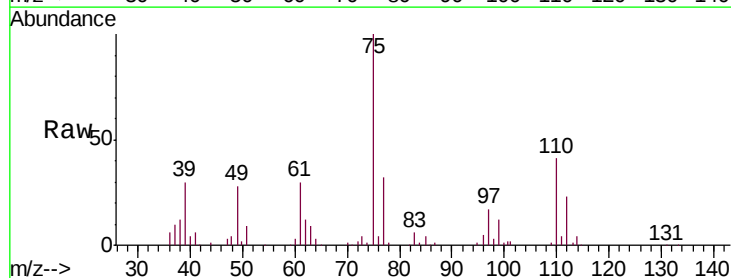
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

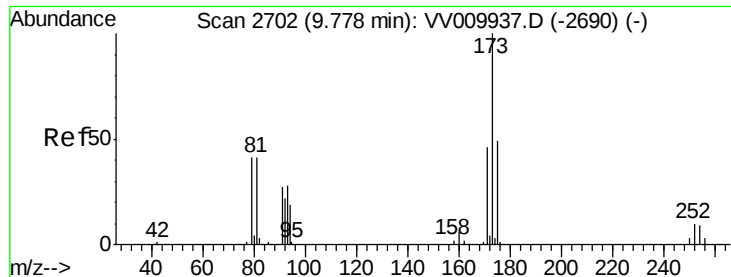
Tgt Ion: 83 Resp: 67809
 Ion Ratio Lower Upper
 83 100
 85 63.9 45.8 85.0
 131 7.8 6.2 9.4



#59
 1,2,3-Trichloropropane
 Concen: 23.668 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VV009959.D
 Acq: 28 Mar 2019 11:18

Tgt Ion: 75 Resp: 46529
 Ion Ratio Lower Upper
 75 100
 77 32.6 26.2 39.2





#62

Bromoform

Concen: 22.622 ug/L

RT: 9.78 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

Instrument :
MSVOA_V
ClientSampleId :
VSTD02569

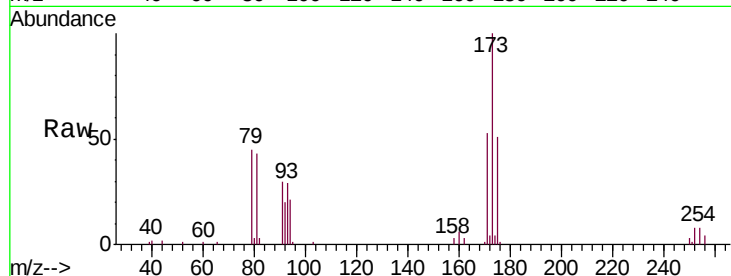
Tgt Ion:173 Resp: 25813

Ion Ratio Lower Upper

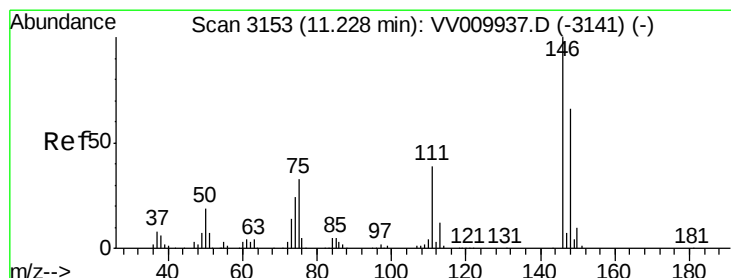
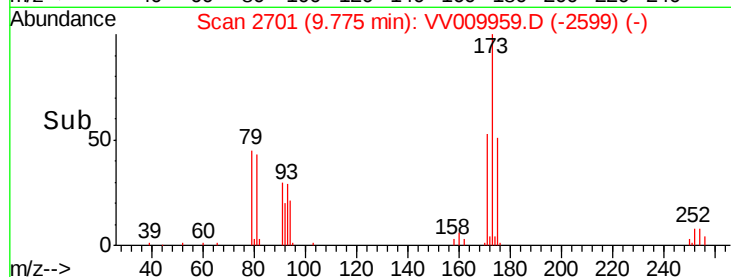
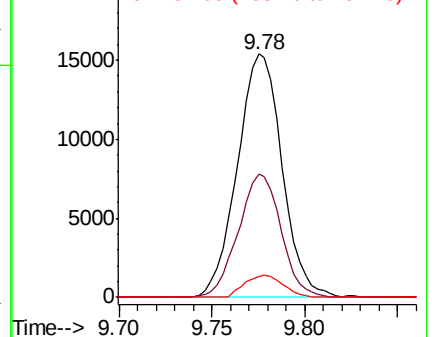
173 100

175 48.2 37.8 56.8

254 7.8 6.6 9.8



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#63

1,3-Dichlorobenzene

Concen: 24.164 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. -0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

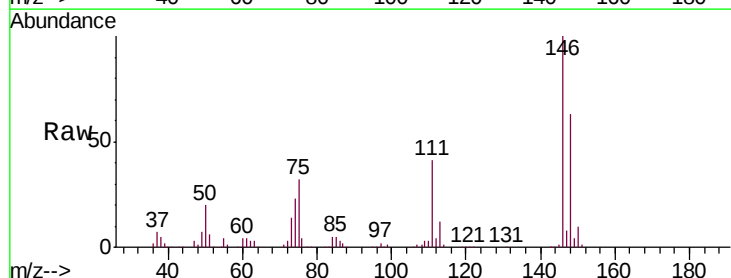
Tgt Ion:146 Resp: 132584

Ion Ratio Lower Upper

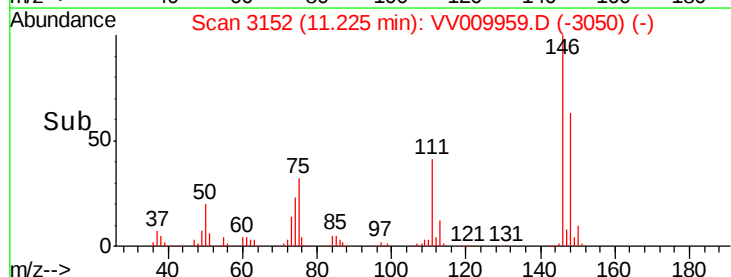
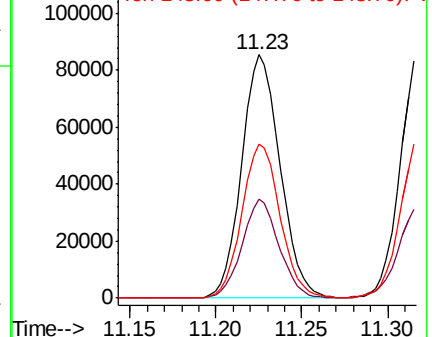
146 100

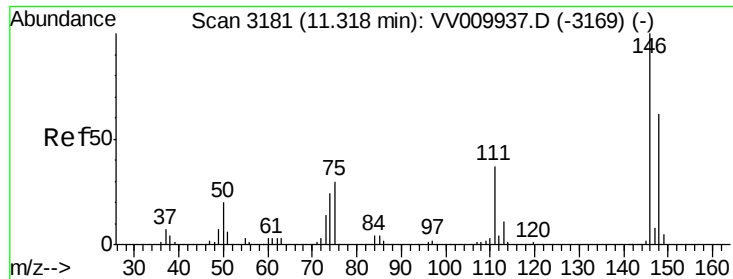
111 40.8 28.5 52.9

148 63.1 45.0 83.6



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: 22.435 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. 0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

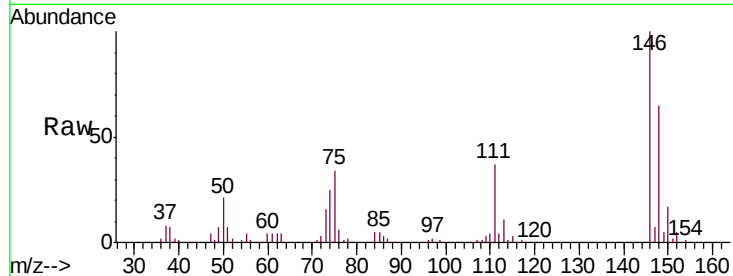
Tgt Ion:146 Resp: 133779

Ion Ratio Lower Upper

146 100

111 37.0 25.4 47.2

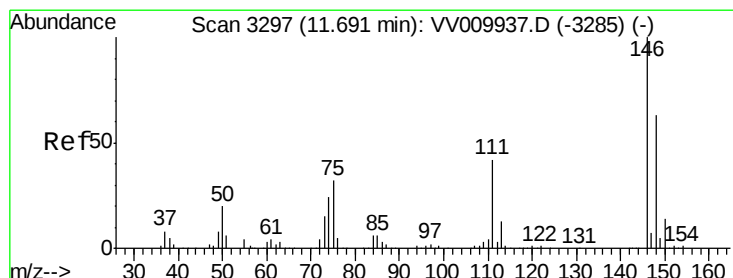
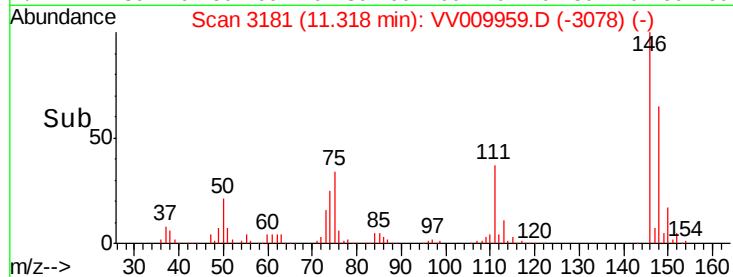
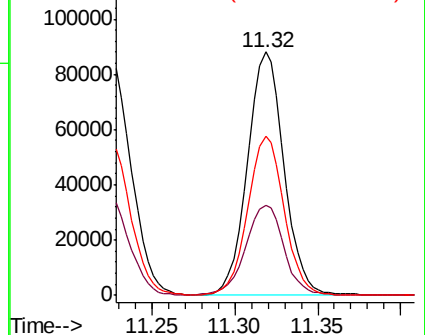
148 65.3 44.1 81.9



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: 23.068 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. -0.00 min

Lab File: VV009959.D

Acq: 28 Mar 2019 11:18

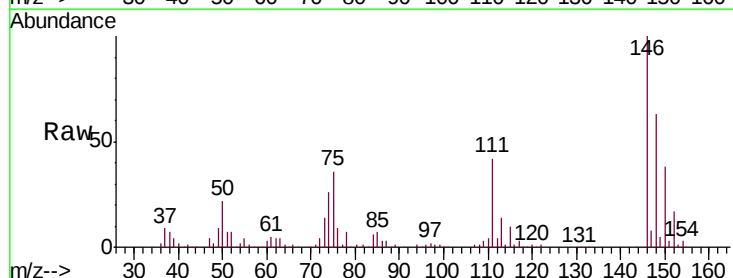
Tgt Ion:146 Resp: 124914

Ion Ratio Lower Upper

146 100

111 42.5 32.7 49.1

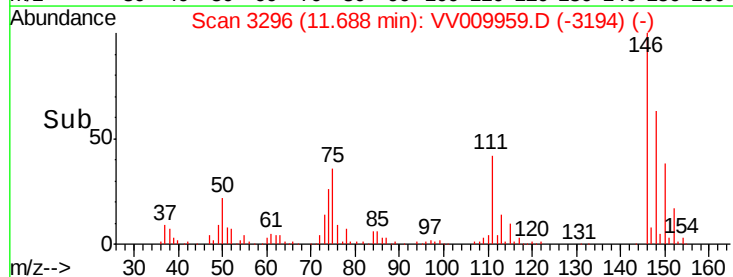
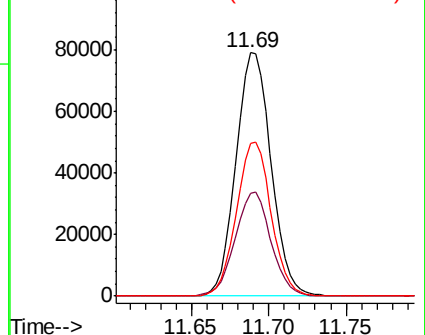
148 62.6 50.5 75.7

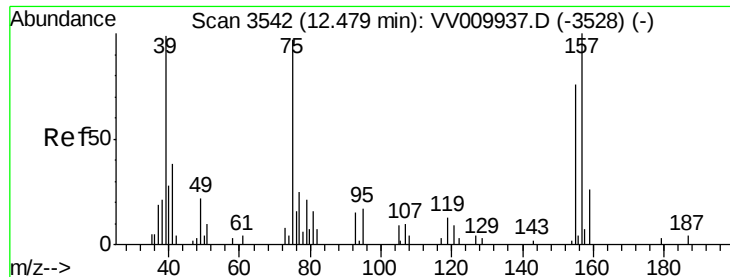


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

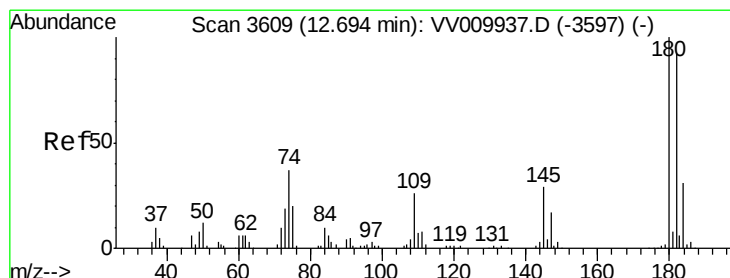
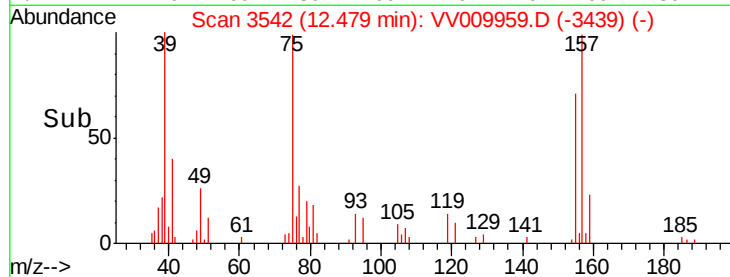
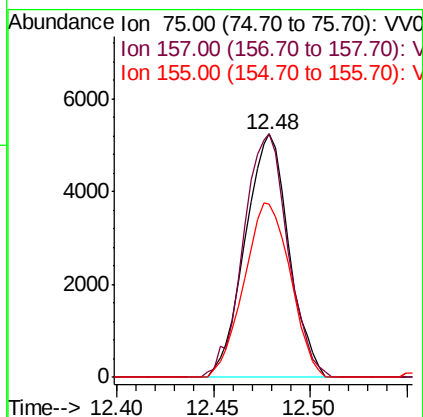
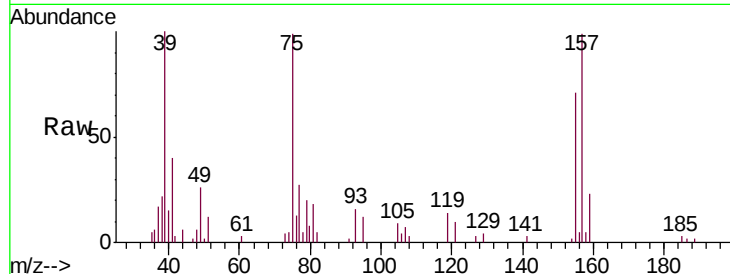




#66
 1,2-Dibromo-3-chloropropane
 Concen: 24.332 ug/L
 RT: 12.48 min Scan# 3542
 Delta R.T. 0.00 min
 Lab File: VV009959.D
 Acq: 28 Mar 2019 11:18

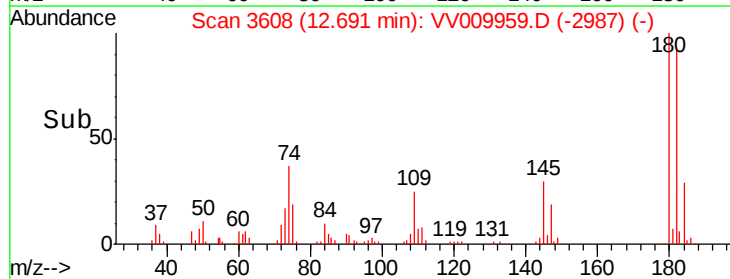
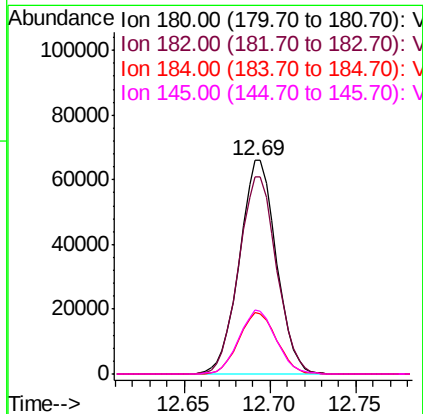
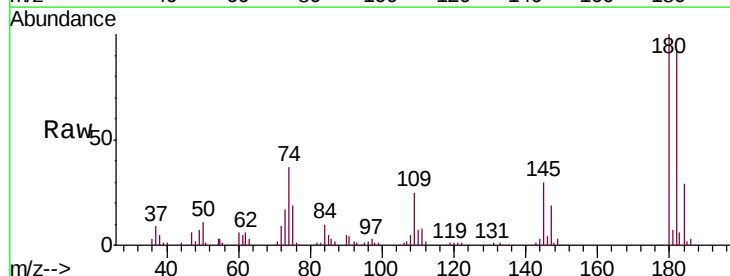
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

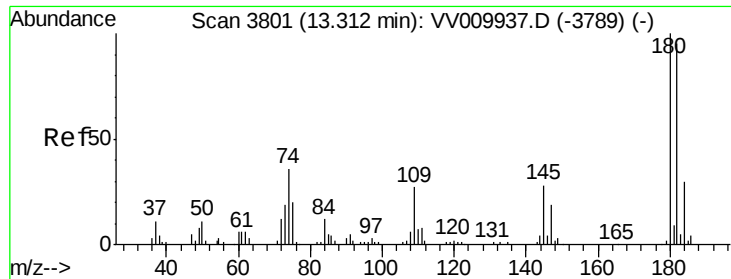
Tgt Ion: 75 Resp: 8235
 Ion Ratio Lower Upper
 75 100
 157 99.9 89.2 133.8
 155 71.2 68.6 102.8



#67
 1,3,5-Trichlorobenzene
 Concen: 25.224 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV009959.D
 Acq: 28 Mar 2019 11:18

Tgt Ion: 180 Resp: 98287
 Ion Ratio Lower Upper
 180 100
 182 94.7 78.4 117.6
 184 29.6 24.3 36.5
 145 30.1 24.9 37.3

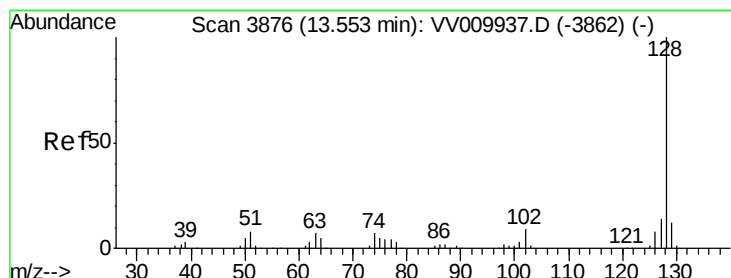
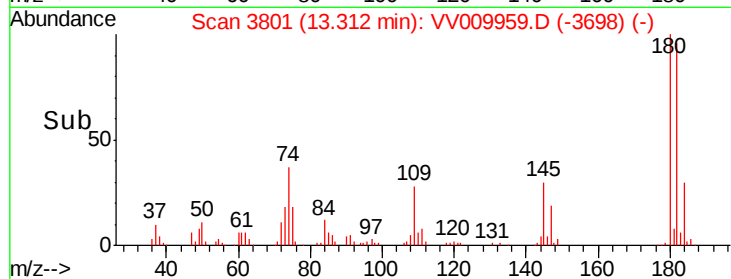
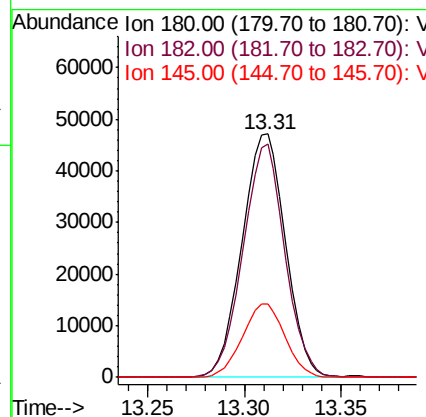
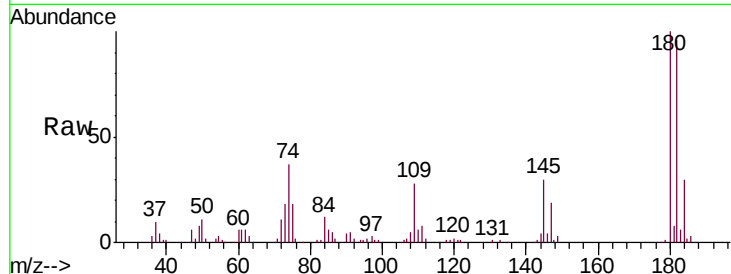




#68
 1,2,4-trichlorobenzene
 Concen: 25.695 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009959.D
 Acq: 28 Mar 2019 11:18

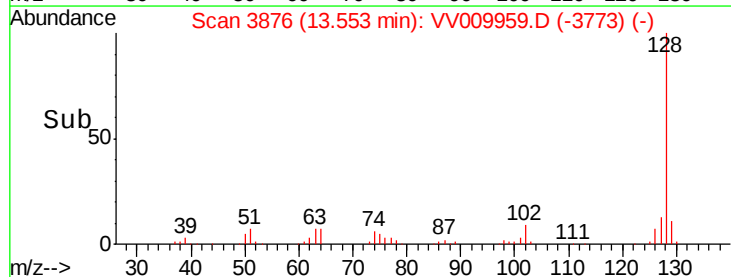
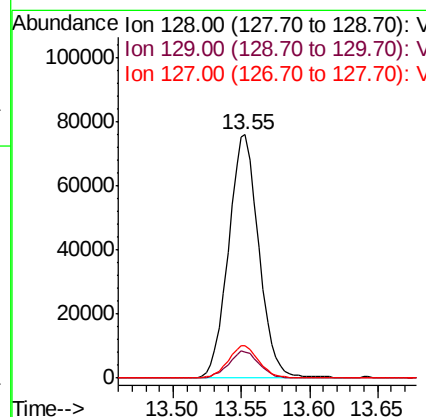
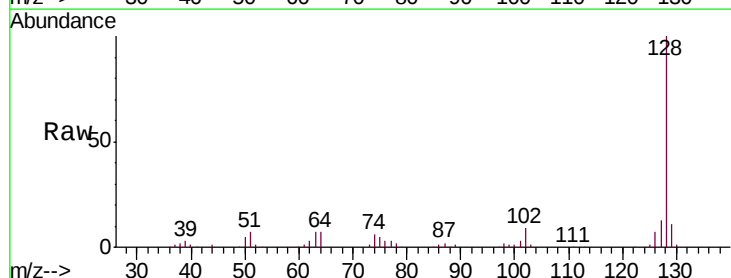
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

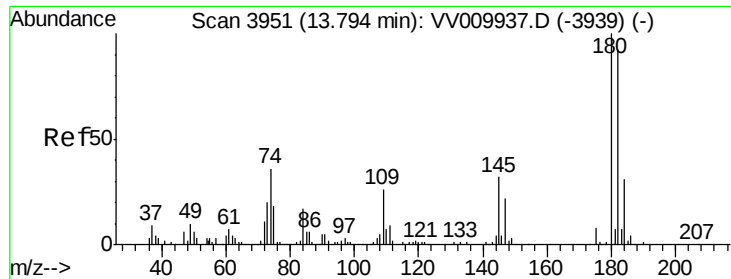
Tgt Ion:180 Resp: 73857
 Ion Ratio Lower Upper
 180 100
 182 92.0 75.5 113.3
 145 29.5 23.2 34.8



#69
 Naphthalene
 Concen: 24.581 ug/L
 RT: 13.55 min Scan# 3876
 Delta R.T. 0.00 min
 Lab File: VV009959.D
 Acq: 28 Mar 2019 11:18

Tgt Ion:128 Resp: 117448
 Ion Ratio Lower Upper
 128 100
 129 11.1 8.8 13.2
 127 13.3 11.4 17.2





#70
 1,2,3-Trichlorobenzene
 Concen: 25.584 ug/L
 RT: 13.79 min Scan# 3951
 Delta R.T. 0.00 min
 Lab File: VV009959.D
 Acq: 28 Mar 2019 11:18

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

Tgt Ion:180 Resp: 69924
 Ion Ratio Lower Upper
 180 100
 182 93.8 77.1 115.7
 145 31.9 26.3 39.5

