

Data File : VV009937.D
Acq On : 27 Mar 2019 19:59
Operator : SY/MD
Sample : VSTSCC025
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

Quant Time: Mar 28 05:18:16 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM032619S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 05:12:38 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	188349	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	188168	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	92361	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	85191	22.29	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.16%
7) Chloroethane-d5	1.57	69	91326	22.12	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.48%
10) 1,1-Dichloroethene-d2	2.13	63	249473	23.86	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	95.44%
20) 2-Butanone-d5	3.93	46	15400	21.62	ug/L	-0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	43.24%
24) Chloroform-d	4.40	84	111117	23.16	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	92.64%
26) 1,2-Dichloroethane-d4	5.08	65	71199	24.65	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	98.60%
29) Benzene-d6	5.10	84	241686	24.46	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	97.84%
33) 1,2-Dichloropropane-d6	6.12	67	71939	24.88	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	99.52%
37) Toluene-d8	7.36	98	233494	24.96	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	99.84%
38) trans-1,3-Dichloropropene-	7.66	79	27936	23.62	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	94.48%
39) 2-Hexanone-d5	8.13	63	26371	48.87	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.74%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	68706	24.00	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	96.00%
61) 1,2-Dichlorobenzene-d4	11.67	152	83085	23.63	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	94.52%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	65588	22.492 ug/L	97
3) Chloromethane	1.25	50	68890	20.442 ug/L	100
5) Vinyl chloride	1.32	62	101559	23.178 ug/L	98
6) Bromomethane	1.51	94	91596	20.958 ug/L	99
8) Chloroethane	1.59	64	77059	20.414 ug/L	99
9) Trichlorofluoromethane	1.76	101	227529	24.349 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	133798	24.634 ug/L	99
12) 1,1-Dichloroethene	2.14	96	111652	24.232 ug/L	93
13) Acetone	2.18	43	50171	46.526 ug/L	99
14) Carbon disulfide	2.32	76	143547	23.028 ug/L	96
15) Methyl Acetate	2.46	43	28667	22.695 ug/L	93
16) Methylene chloride	2.53	84	70114	22.605 ug/L	99
17) Methyl tert-butyl Ether	2.80	73	139930	23.275 ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	57167	23.164 ug/L	96
19) 1,1-Dichloroethane	3.23	63	104960	23.256 ug/L	99
21) 2-Butanone	4.01	43	40574	42.248 ug/L	94
22) cis-1,2-Dichloroethene	3.96	96	64423	23.642 ug/L	91

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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	28569	22.706	ug/L #	84
25) Chloroform	4.42	83	125669	25.183	ug/L	100
27) 1,2-Dichloroethane	5.18	62	83818	23.707	ug/L	100
30) Cyclohexane	4.72	56	89261	23.527	ug/L	98
31) 1,1,1-Trichloroethane	4.66	97	94107	24.990	ug/L	99
32) Carbon tetrachloride	4.87	117	81070	24.768	ug/L	100
34) Benzene	5.14	78	237349	22.970	ug/L	100
35) Trichloroethene	5.96	95	63829	23.419	ug/L	97
36) Methylcyclohexane	6.17	83	102565	23.984	ug/L	97
40) 1,2-Dichloropropane	6.22	63	62169	24.078	ug/L #	94
41) Bromodichloromethane	6.55	83	77189	24.039	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	88353	23.470	ug/L	97
43) 4-Methyl-2-pentanone	7.27	43	86851	47.136	ug/L	99
44) Toluene	7.43	91	274072	24.060	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	75835	24.609	ug/L	94
46) 1,1,2-Trichloroethane	7.88	97	51294	24.020	ug/L	98
47) Tetrachloroethene	8.02	164	52088	24.218	ug/L	99
49) 2-Hexanone	8.18	43	60068	48.236	ug/L	97
50) Dibromochloromethane	8.29	129	53760	24.279	ug/L	99
51) 1,2-Dibromoethane	8.40	107	49397	23.823	ug/L	95
52) Chlorobenzene	8.92	112	175996	23.208	ug/L	98
53) Ethylbenzene	9.05	91	304042	24.196	ug/L	99
54) m,p-Xylene	9.18	106	116768	23.660	ug/L	96
55) o-xylene	9.59	106	109994	22.961	ug/L	96
56) Styrene	9.60	104	193517	23.518	ug/L	97
57) Isopropylbenzene	9.97	105	296344	23.846	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	65414	22.726	ug/L #	97
59) 1,2,3-Trichloropropane	10.32	75	47118	22.681	ug/L	98
62) Bromoform	9.78	173	26205	22.058	ug/L	96
63) 1,3-Dichlorobenzene	11.23	146	131474	23.015	ug/L	97
64) 1,4-Dichlorobenzene	11.32	146	136344	21.961	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	130409	23.131	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	7518	21.335	ug/L	96
67) 1,3,5-Trichlorobenzene	12.69	180	95800	23.614	ug/L	96
68) 1,2,4-trichlorobenzene	13.31	180	72677	24.285	ug/L	99
69) Naphthalene	13.55	128	113188	22.753	ug/L	97
70) 1,2,3-Trichlorobenzene	13.79	180	67185	23.610	ug/L	98

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

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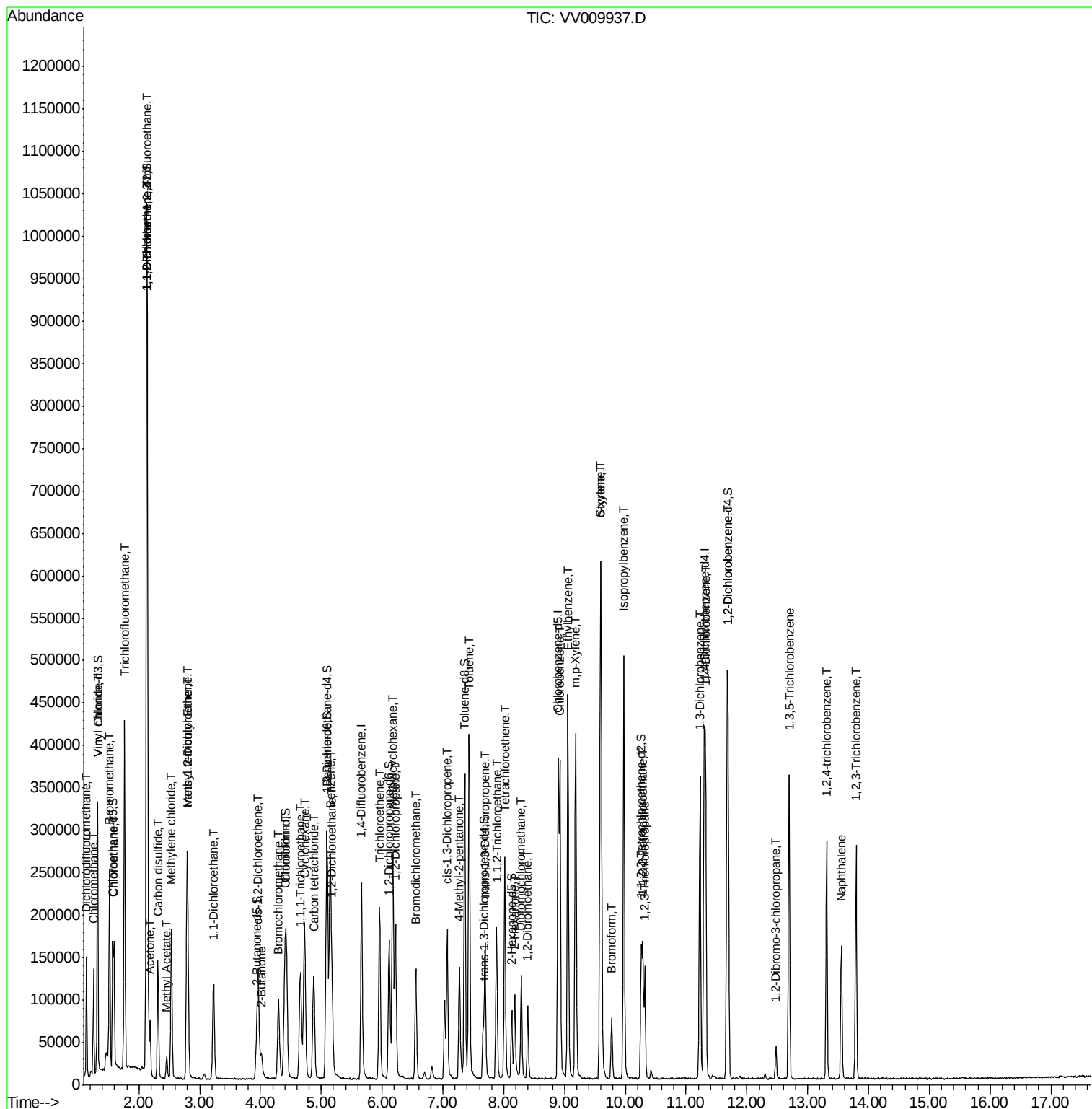
Quant Time: Mar 28 05:18:16 2019

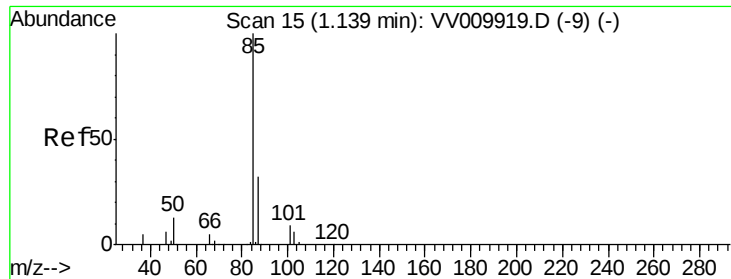
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Quant Title : VOC Analysis

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 22.492 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

Instrument :

MSVOA_V

ClientSampleId :

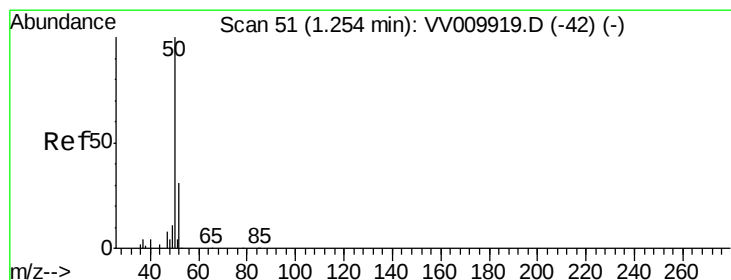
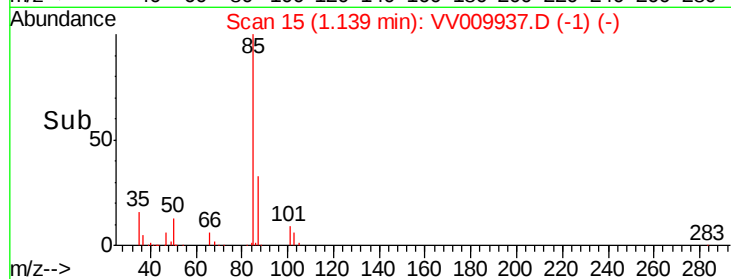
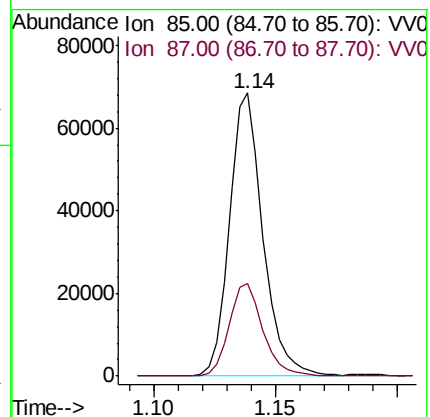
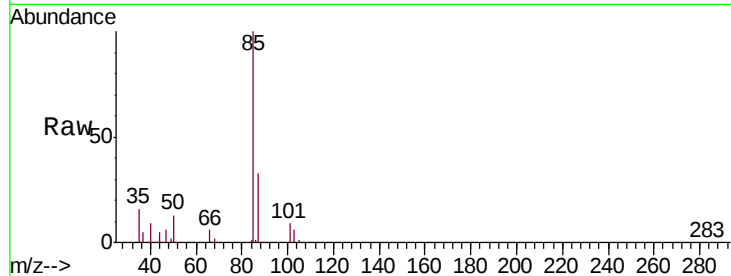
VSTD02567

Tgt Ion: 85 Resp: 65588

Ion Ratio Lower Upper

85 100

87 33.2 22.2 41.2



#3

Chloromethane

Concen: 20.442 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV009937.D

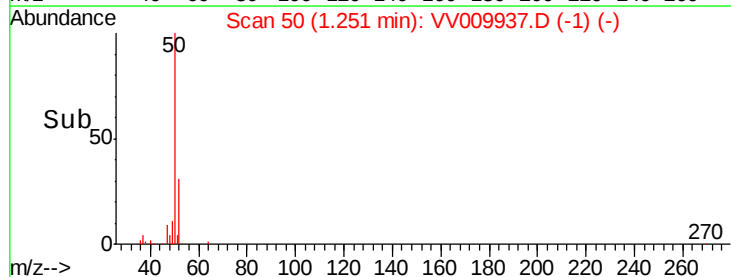
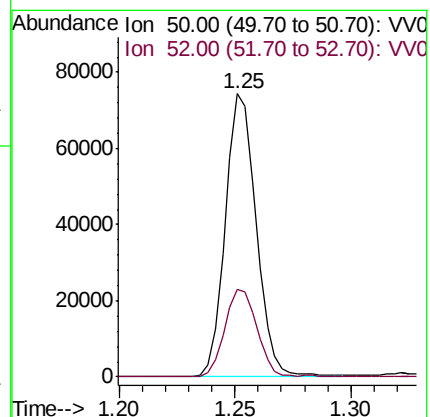
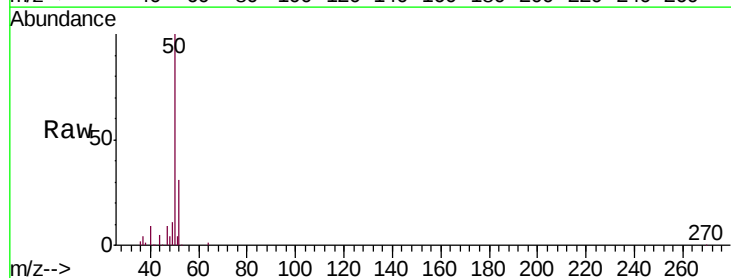
Acq: 27 Mar 2019 19:59

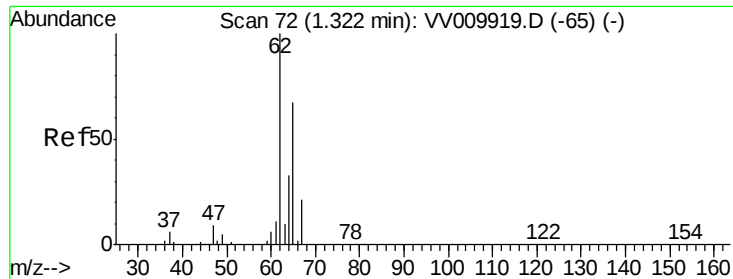
Tgt Ion: 50 Resp: 68890

Ion Ratio Lower Upper

50 100

52 31.0 21.8 40.6





#5

Vinyl chloride

Concen: 23.178 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

Instrument :

MSVOA_V

ClientSampleId :

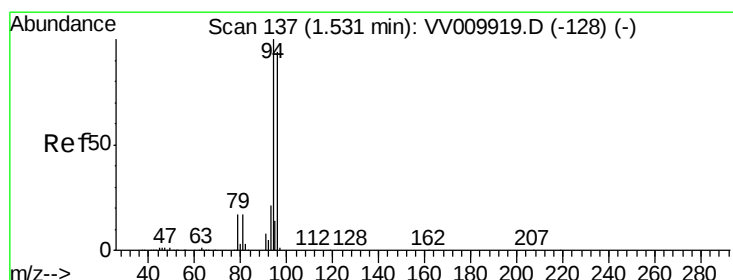
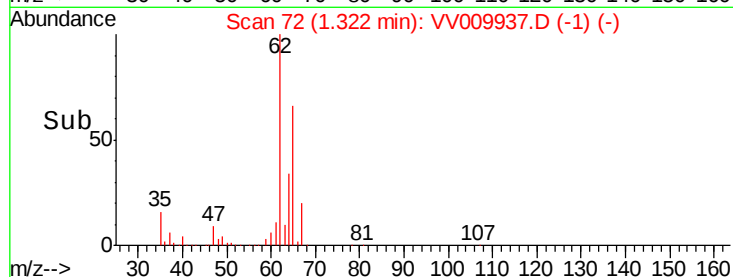
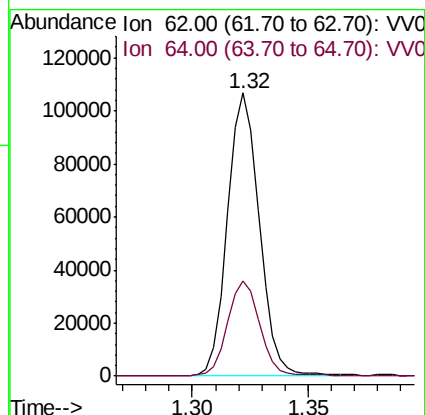
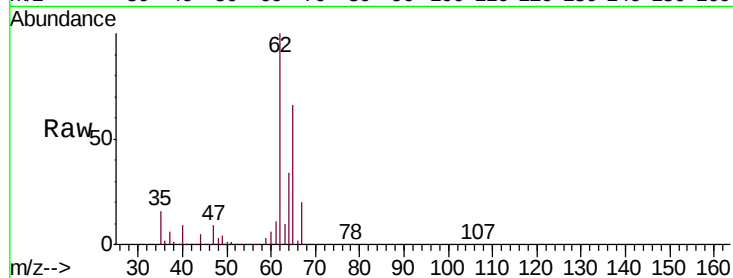
VSTD02567

Tgt Ion: 62 Resp: 101559

Ion Ratio Lower Upper

62 100

64 33.7 22.8 42.4



#6

Bromomethane

Concen: 20.958 ug/L

RT: 1.51 min Scan# 132

Delta R.T. -0.02 min

Lab File: VV009937.D

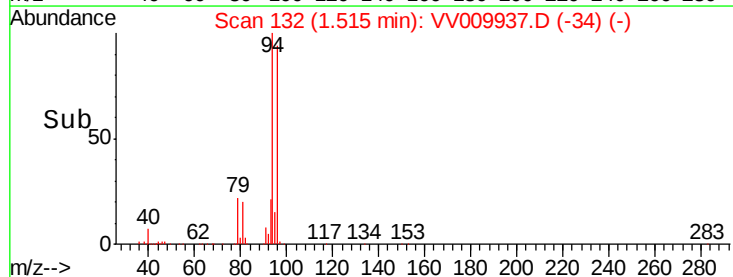
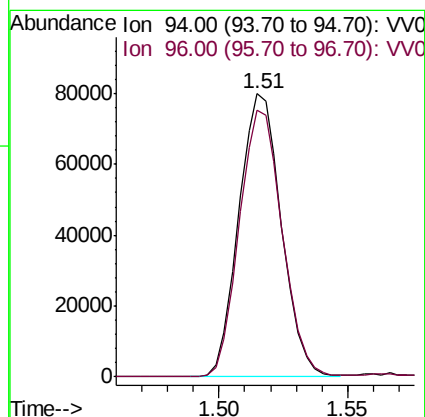
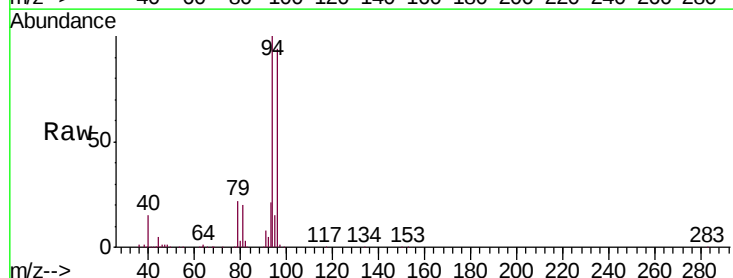
Acq: 27 Mar 2019 19:59

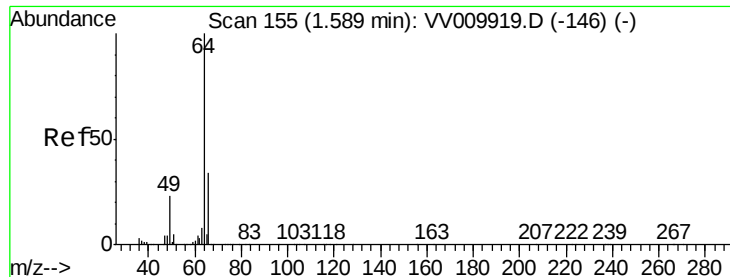
Tgt Ion: 94 Resp: 91596

Ion Ratio Lower Upper

94 100

96 95.5 9.4 179.4

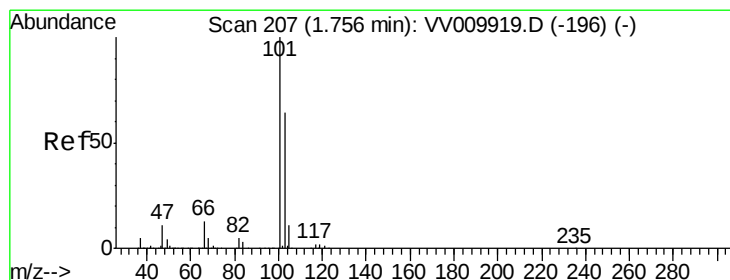
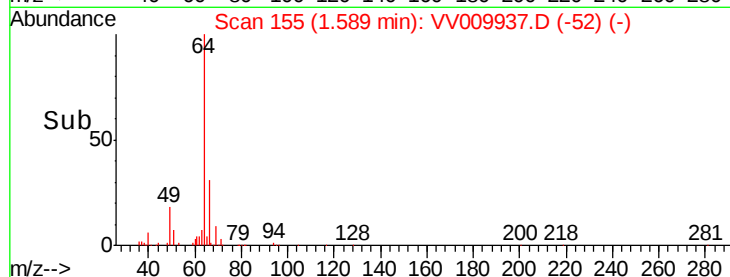
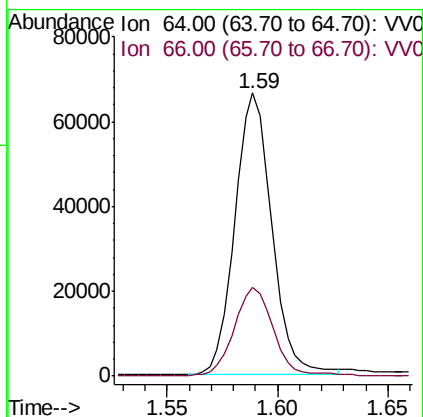
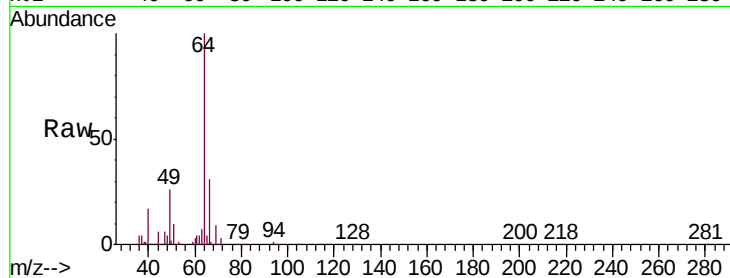




#8
Chloroethane
Concen: 20.414 ug/L
RT: 1.59 min Scan# 155
Delta R.T. -0.00 min
Lab File: VV009937.D
Acq: 27 Mar 2019 19:59

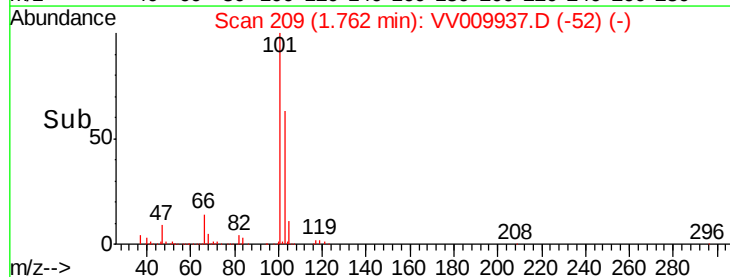
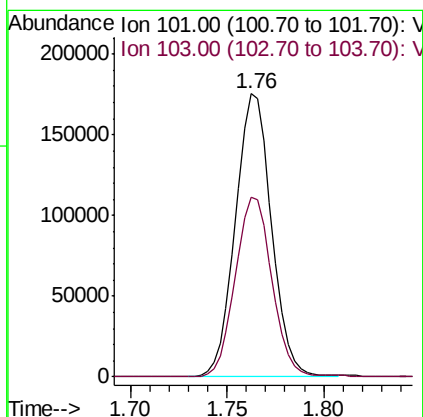
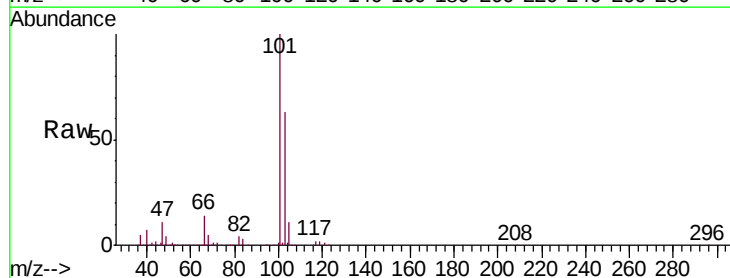
Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

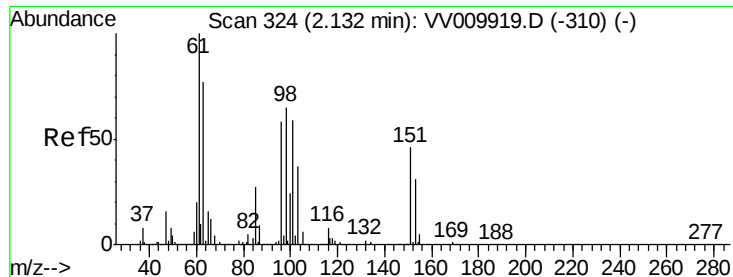
Tgt Ion: 64 Resp: 77059
Ion Ratio Lower Upper
64 100
66 31.2 22.3 41.5



#9
Trichlorofluoromethane
Concen: 24.349 ug/L
RT: 1.76 min Scan# 209
Delta R.T. 0.01 min
Lab File: VV009937.D
Acq: 27 Mar 2019 19:59

Tgt Ion: 101 Resp: 227529
Ion Ratio Lower Upper
101 100
103 64.2 45.1 83.9





#11

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

Concen: 24.634 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

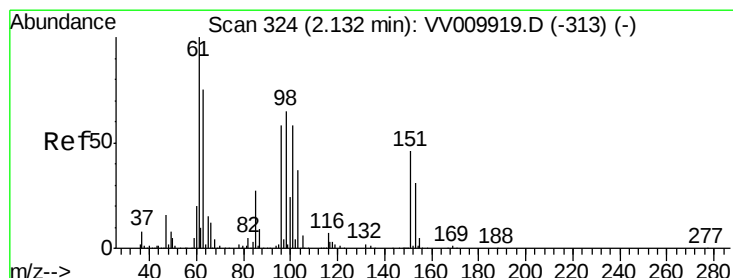
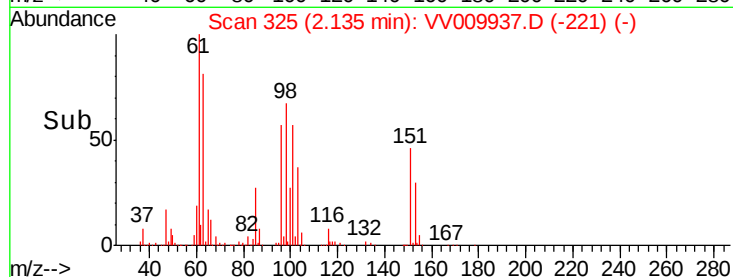
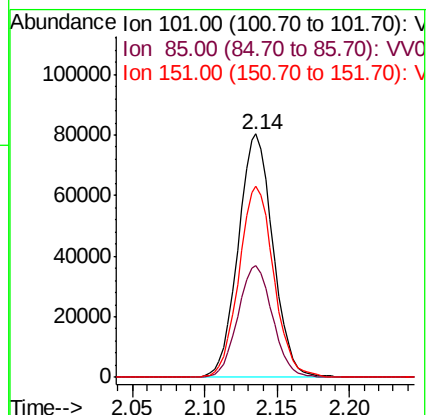
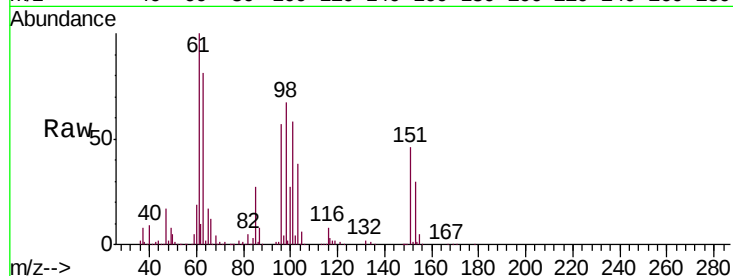
Tgt Ion: 101 Resp: 133798

Ion Ratio Lower Upper

101 100

85 45.7 36.9 55.3

151 78.8 63.6 95.4



#12

1,1-Dichloroethene

Concen: 24.232 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

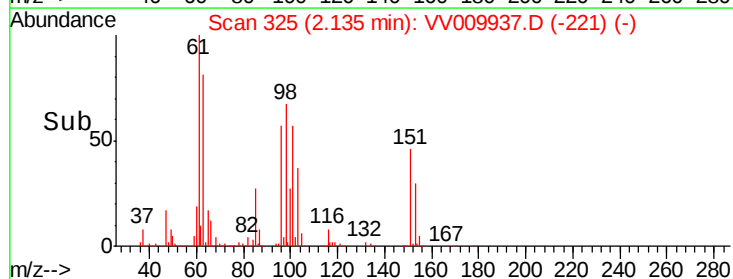
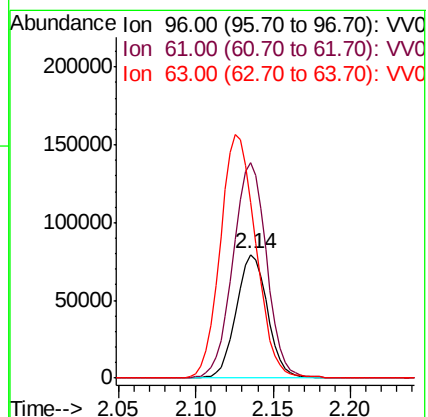
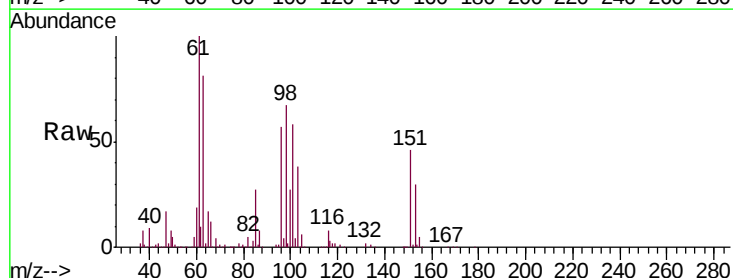
Tgt Ion: 96 Resp: 111652

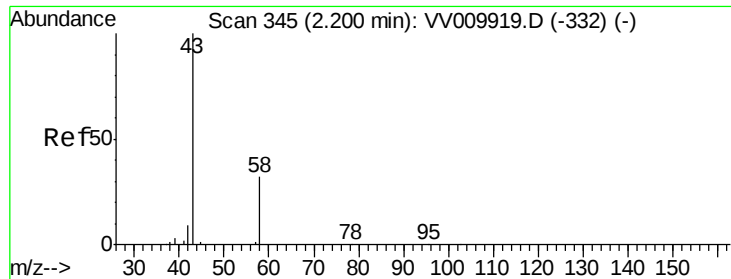
Ion Ratio Lower Upper

96 100

61 174.5 124.3 230.8

63 142.0 88.2 163.8





#13

Acetone

Concen: 46.526 ug/L

RT: 2.18 min Scan# 339

Delta R.T. -0.02 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

Instrument :

MSVOA_V

ClientSampleId :

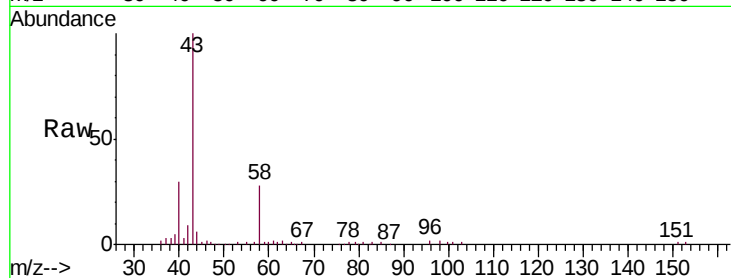
VSTD02567

Tgt Ion: 43 Resp: 50171

Ion Ratio Lower Upper

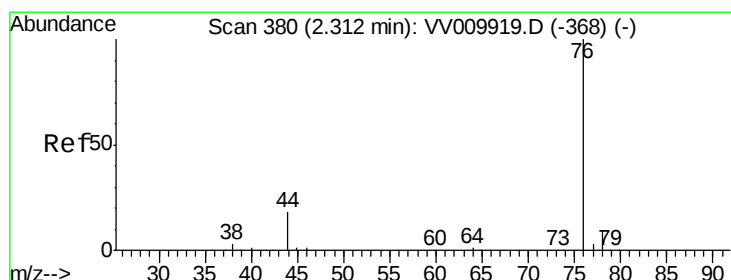
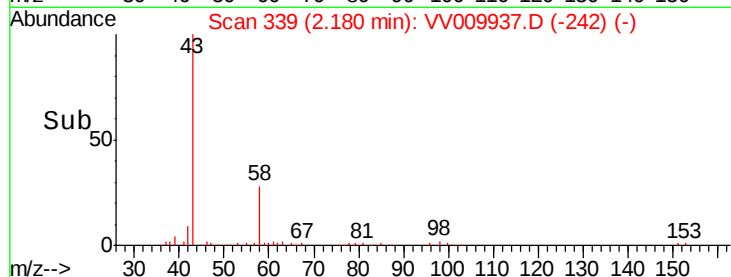
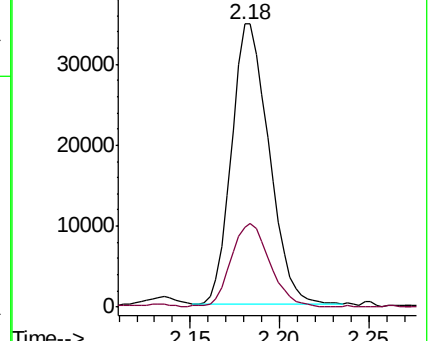
43 100

58 30.3 0.0 59.4



Abundance Ion 43.00 (42.70 to 43.70): VV009937.D (-242) (-)

Ion 58.00 (57.70 to 58.70): VV009937.D (-242) (-)



#14

Carbon disulfide

Concen: 23.028 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV009937.D

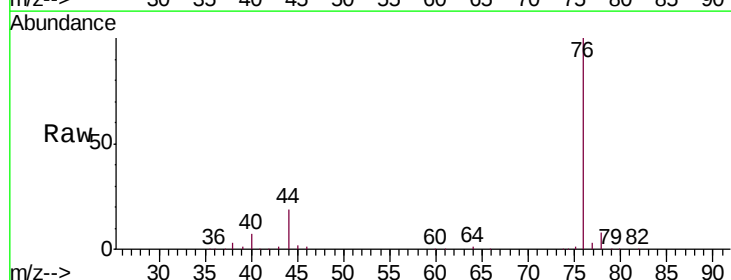
Acq: 27 Mar 2019 19:59

Tgt Ion: 76 Resp: 143547

Ion Ratio Lower Upper

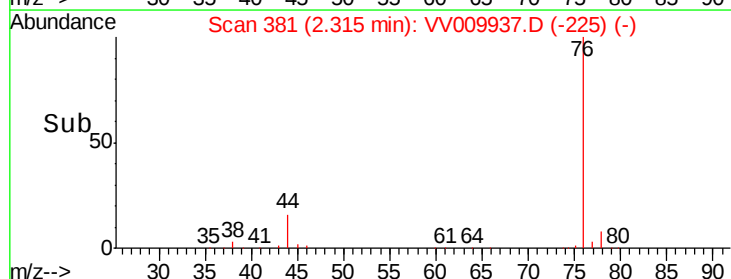
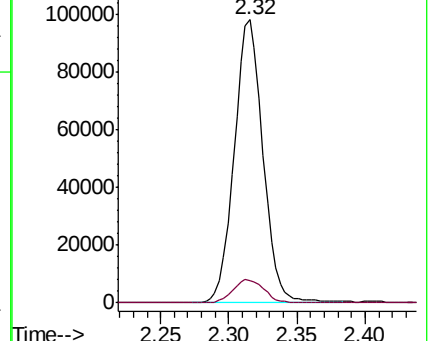
76 100

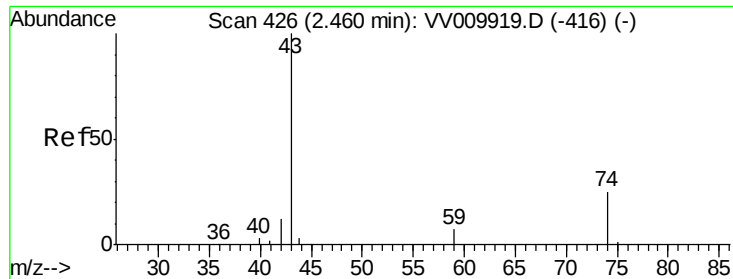
78 8.0 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VV009937.D (-225) (-)

Ion 78.00 (77.70 to 78.70): VV009937.D (-225) (-)

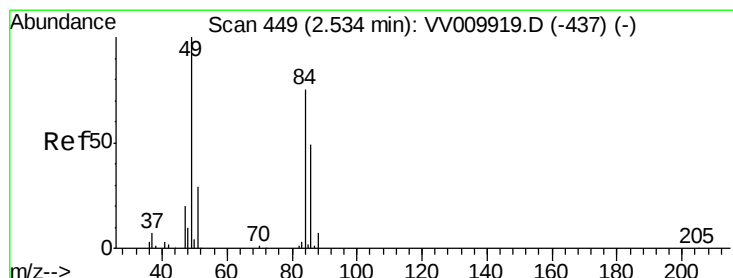
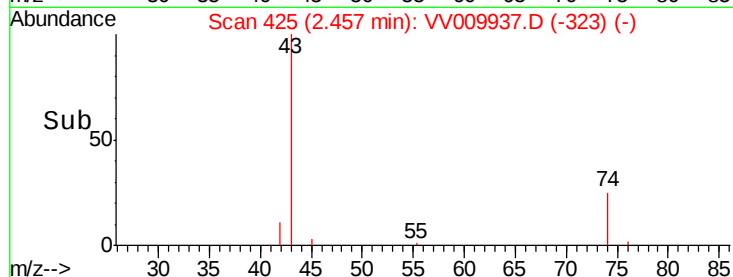
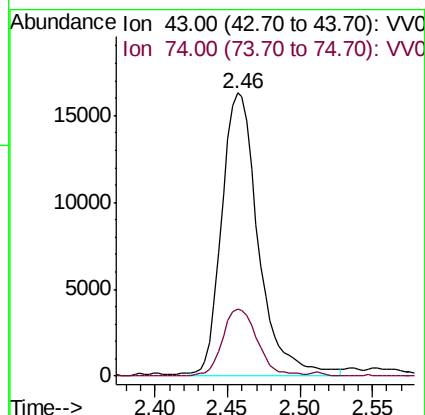
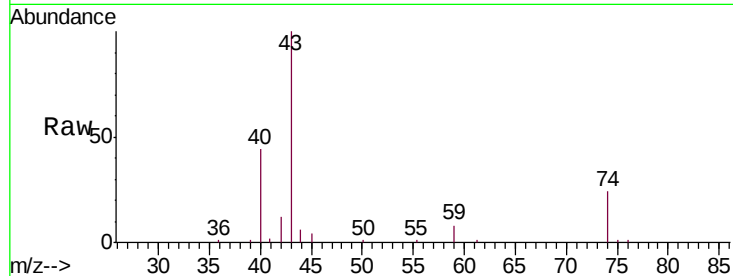




#15
Methyl Acetate
Concen: 22.695 ug/L
RT: 2.46 min Scan# 425
Delta R.T. -0.00 min
Lab File: VV009937.D
Acq: 27 Mar 2019 19:59

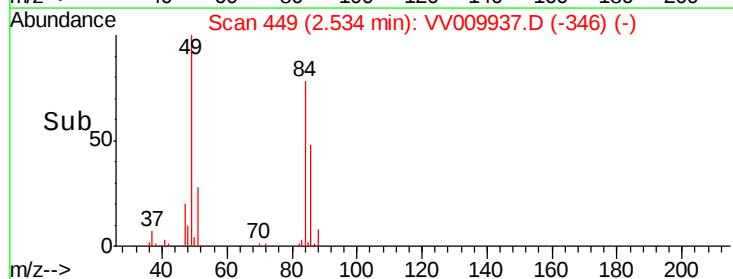
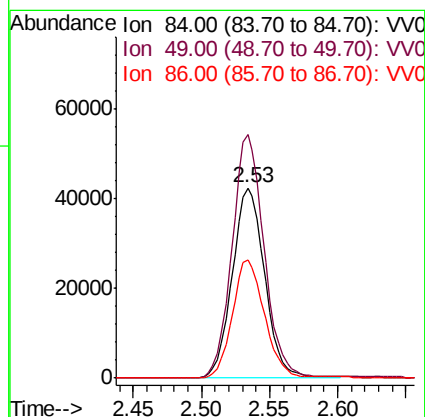
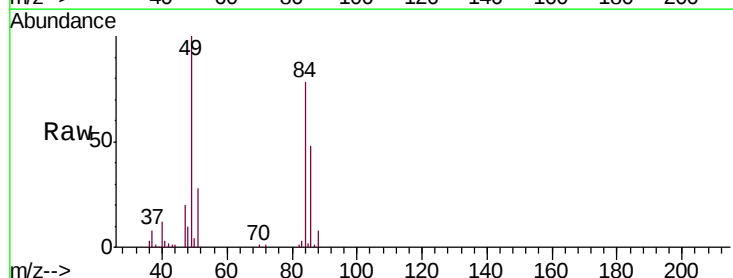
Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

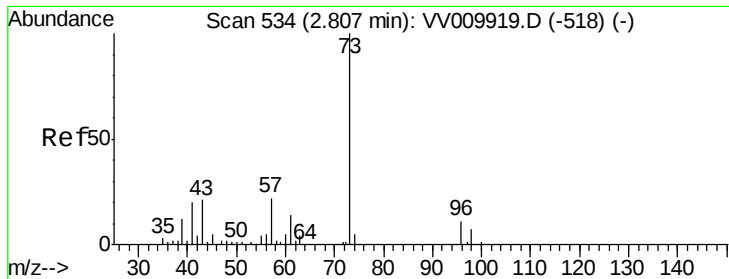
Tgt Ion: 43 Resp: 28667
Ion Ratio Lower Upper
43 100
74 22.5 20.9 31.3



#16
Methylene chloride
Concen: 22.605 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV009937.D
Acq: 27 Mar 2019 19:59

Tgt Ion: 84 Resp: 70114
Ion Ratio Lower Upper
84 100
49 127.9 90.4 167.8
86 62.0 44.0 81.6





#17

Methyl tert-butyl Ether

Concen: 23.275 ug/L

RT: 2.80 min Scan# 533

Delta R.T. -0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

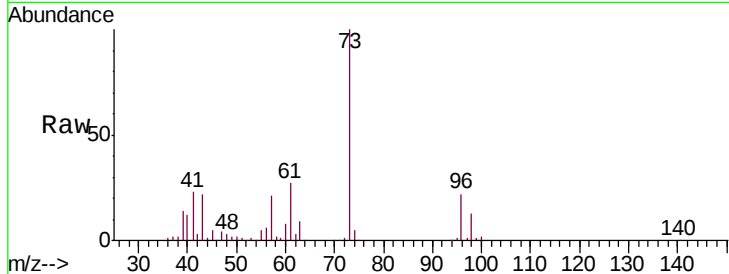
Tgt Ion: 73 Resp: 139930

Ion Ratio Lower Upper

73 100

43 21.9 17.0 25.6

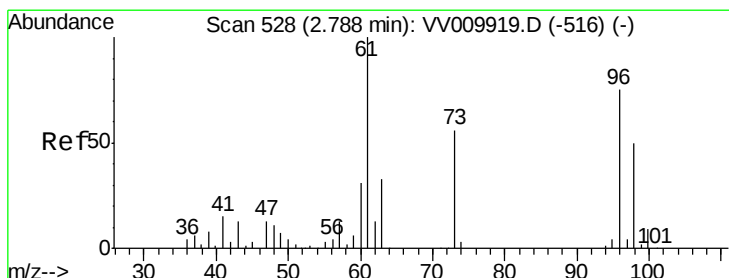
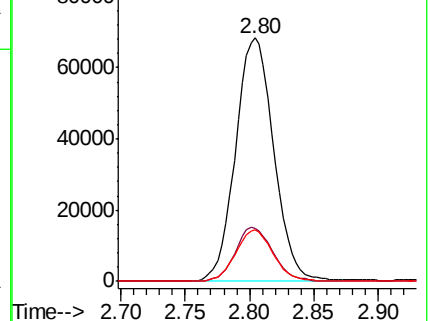
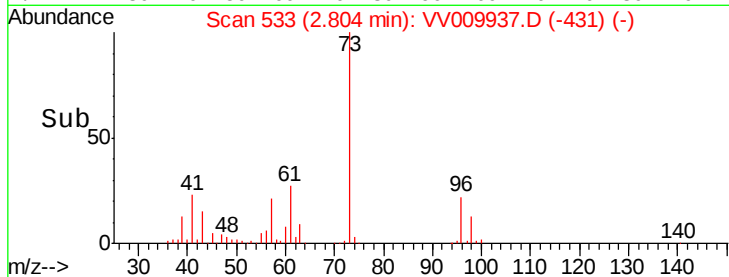
57 20.9 18.0 27.0



Abundance Ion 73.00 (72.70 to 73.70): VV009937.D (-431) (-)

Ion 43.00 (42.70 to 43.70): VV009937.D (-431) (-)

Ion 57.00 (56.70 to 57.70): VV009937.D (-431) (-)



#18

trans-1,2-Dichloroethene

Concen: 23.164 ug/L

RT: 2.79 min Scan# 528

Delta R.T. -0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

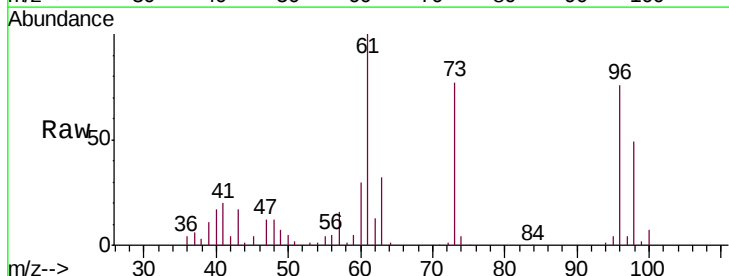
Tgt Ion: 96 Resp: 57167

Ion Ratio Lower Upper

96 100

61 132.3 96.8 179.8

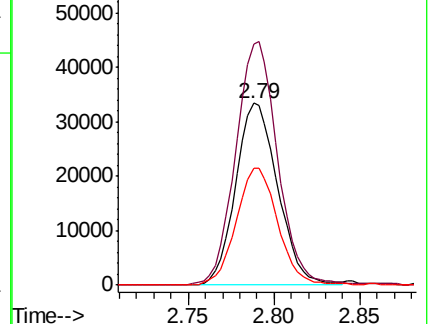
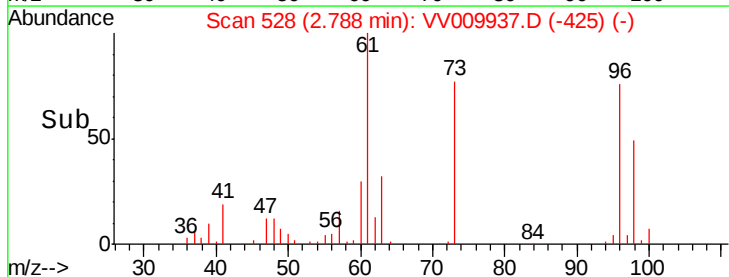
98 64.3 46.1 85.7

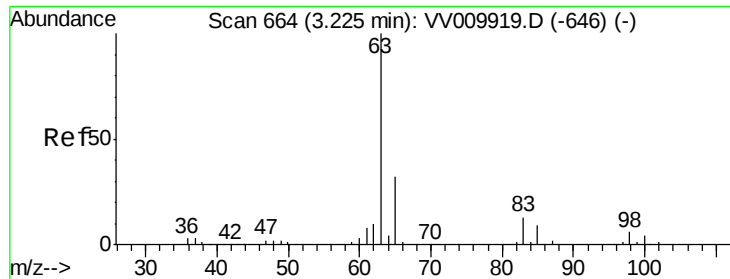


Abundance Ion 96.00 (95.70 to 96.70): VV009937.D (-425) (-)

Ion 61.00 (60.70 to 61.70): VV009937.D (-425) (-)

Ion 98.00 (97.70 to 98.70): VV009937.D (-425) (-)

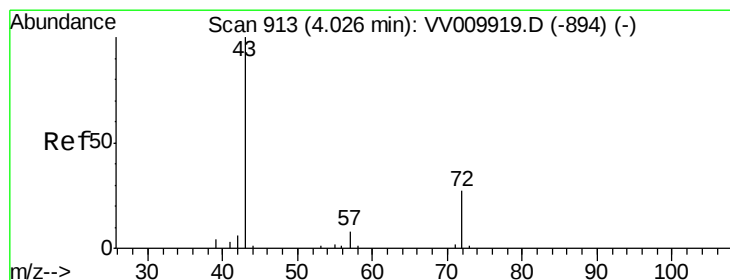
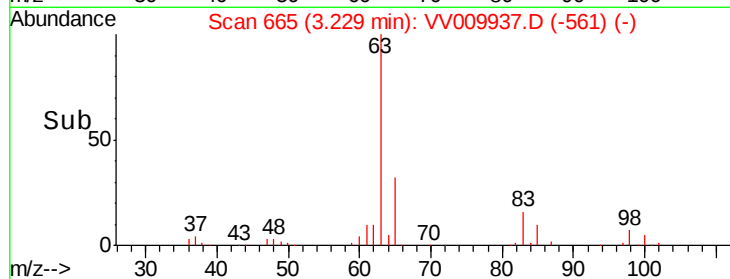
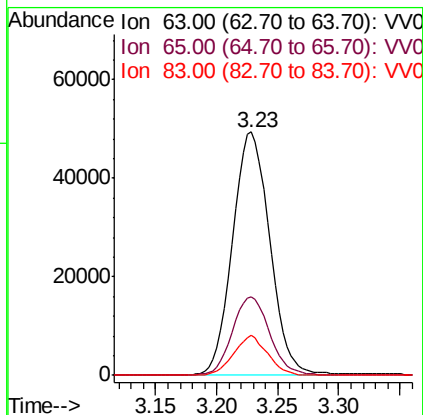
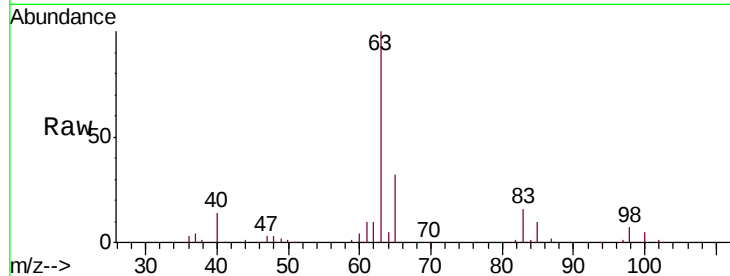




#19
 1,1-Dichloroethane
 Concen: 23.256 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV009937.D
 Acq: 27 Mar 2019 19:59

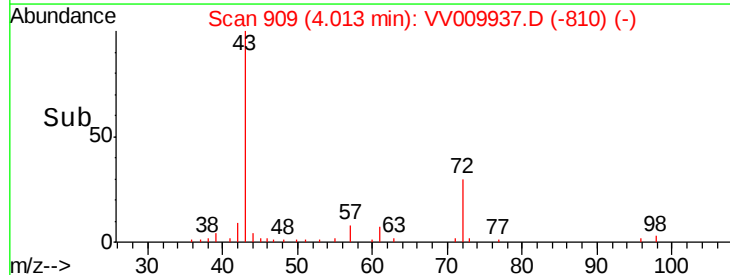
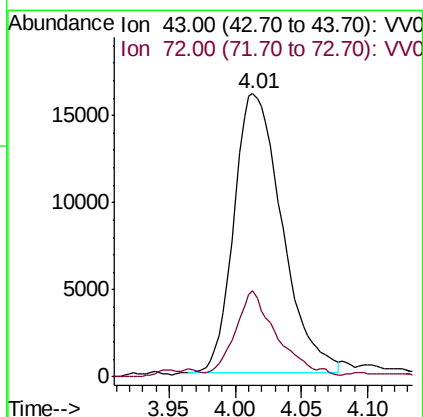
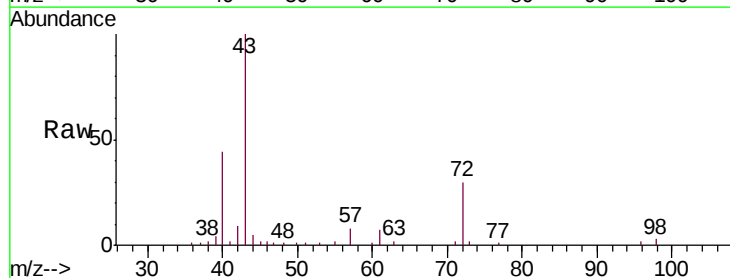
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02567

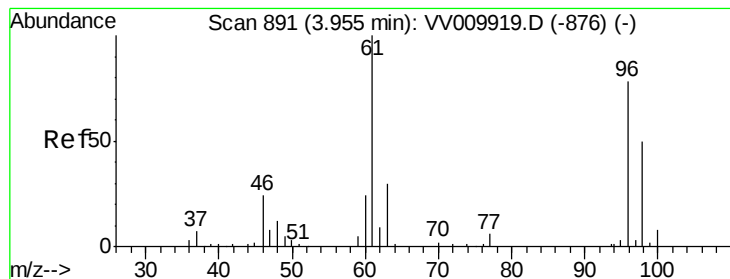
Tgt Ion: 63 Resp: 104960
 Ion Ratio Lower Upper
 63 100
 65 32.2 23.2 43.0
 83 16.3 11.3 21.1



#21
 2-Butanone
 Concen: 42.248 ug/L
 RT: 4.01 min Scan# 909
 Delta R.T. -0.01 min
 Lab File: VV009937.D
 Acq: 27 Mar 2019 19:59

Tgt Ion: 43 Resp: 40574
 Ion Ratio Lower Upper
 43 100
 72 25.0 11.1 33.1



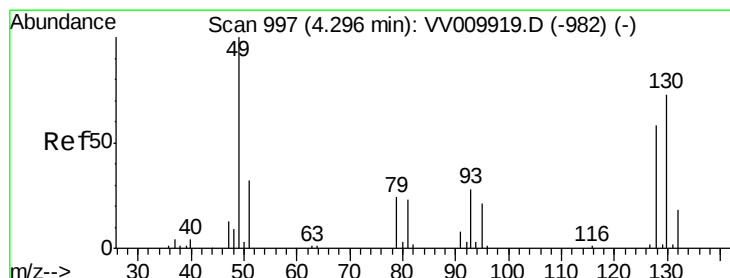
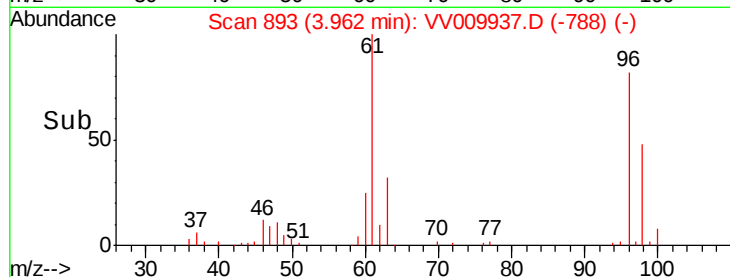
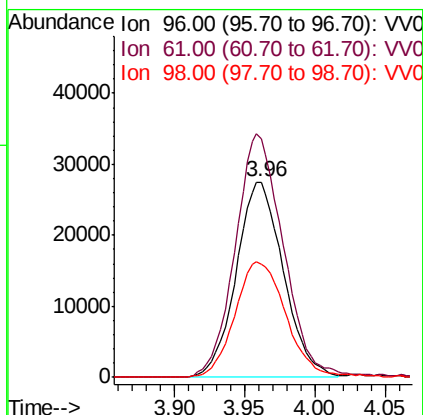
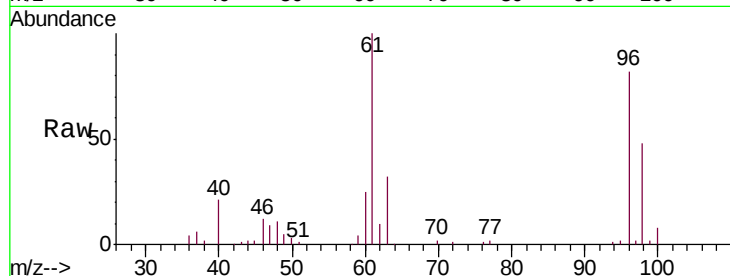


#22

cis-1,2-Dichloroethene
 Concen: 23.642 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.01 min
 Lab File: VV009937.D
 Acq: 27 Mar 2019 19:59

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02567

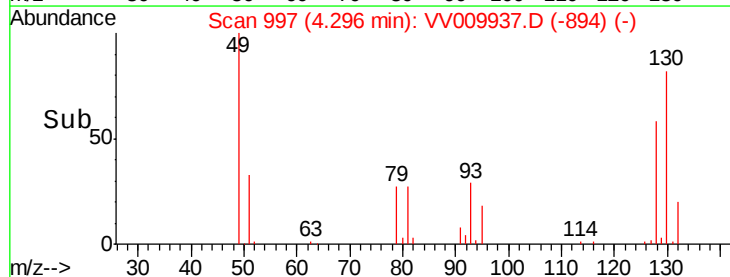
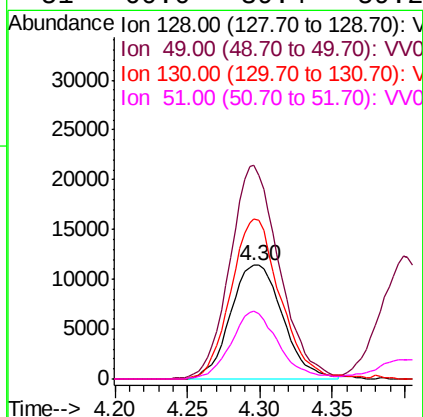
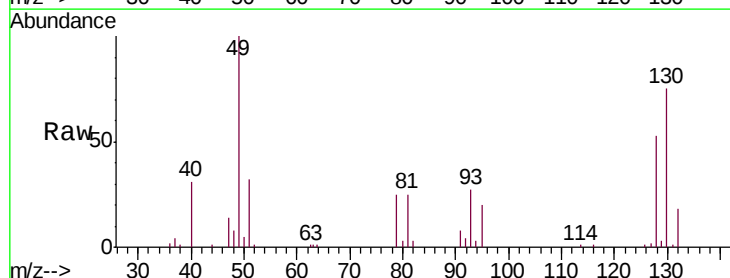
Tgt Ion: 96 Resp: 64423
 Ion Ratio Lower Upper
 96 100
 61 122.2 91.4 169.8
 98 58.2 48.0 89.2

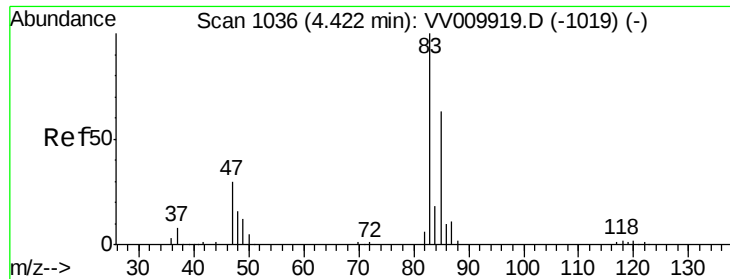


#23

Bromochloromethane
 Concen: 22.706 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. -0.00 min
 Lab File: VV009937.D
 Acq: 27 Mar 2019 19:59

Tgt Ion: 128 Resp: 28569
 Ion Ratio Lower Upper
 128 100
 49 188.0 118.2 219.6
 130 141.3 83.4 154.8
 51 60.0 39.4 59.2#

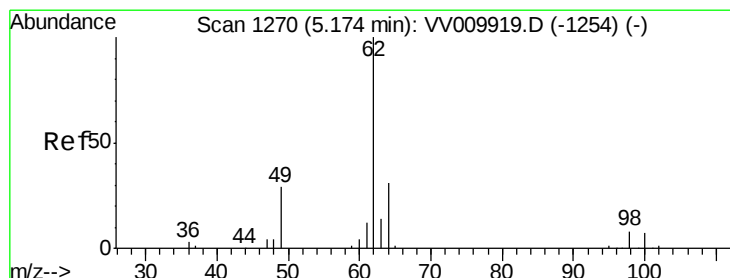
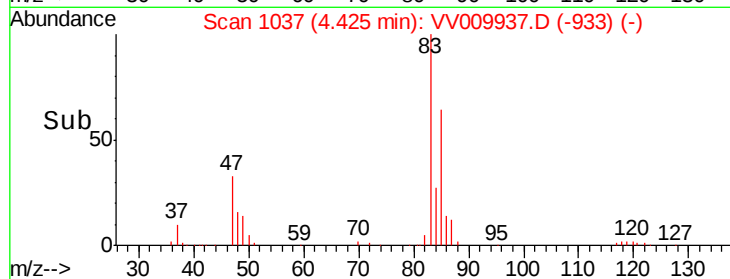
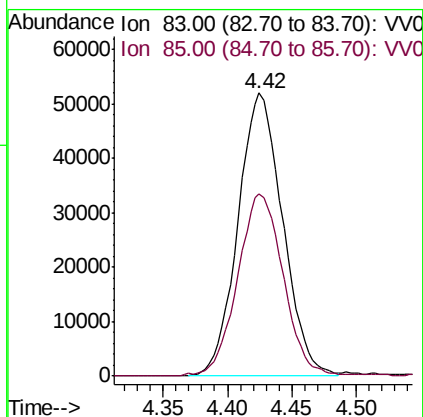
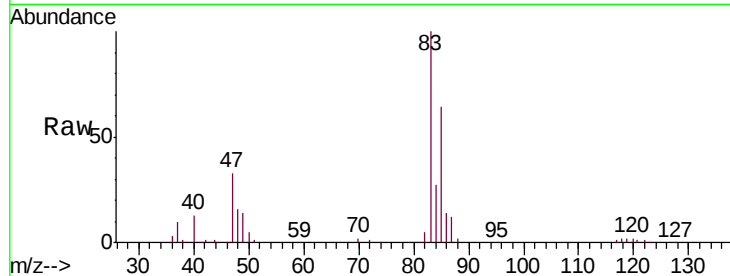




#25
Chloroform
Concen: 25.183 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV009937.D
Acq: 27 Mar 2019 19:59

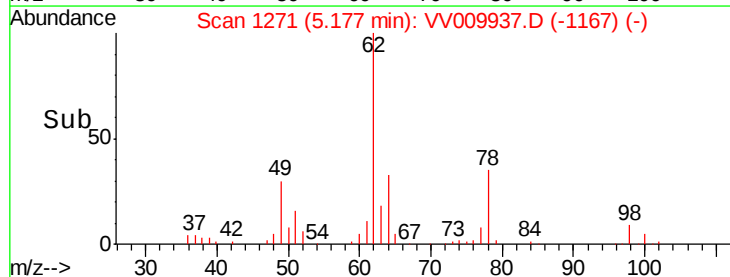
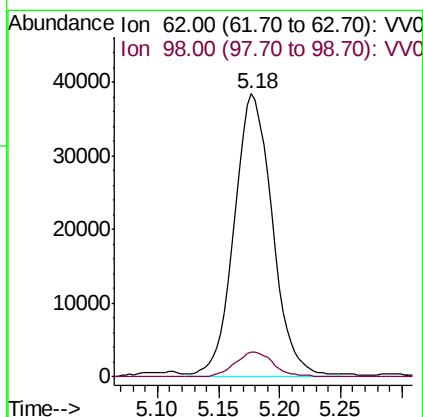
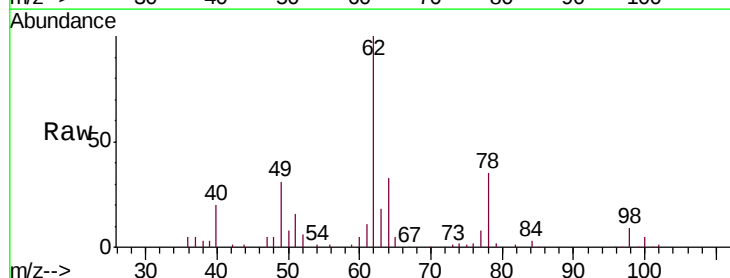
Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

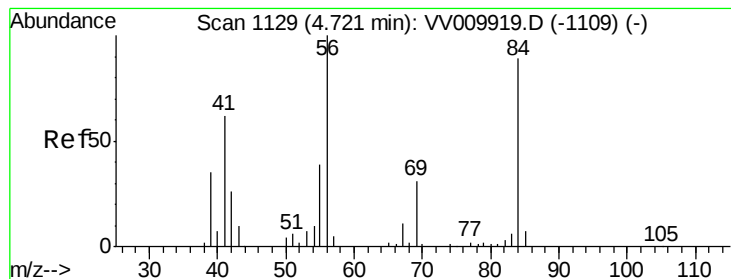
Tgt Ion: 83 Resp: 125669
Ion Ratio Lower Upper
83 100
85 65.7 46.1 85.7



#27
1,2-Dichloroethane
Concen: 23.707 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV009937.D
Acq: 27 Mar 2019 19:59

Tgt Ion: 62 Resp: 83818
Ion Ratio Lower Upper
62 100
98 9.0 7.2 10.8





#30

Cyclohexane

Concen: 23.527 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

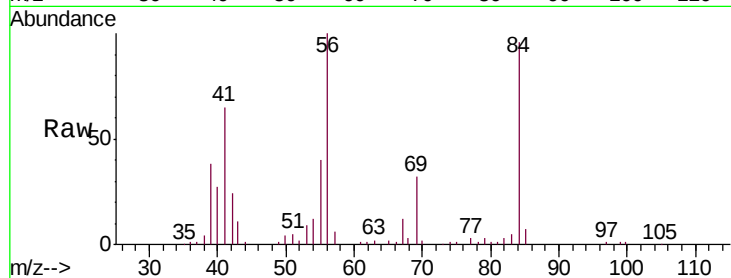
Tgt Ion: 56 Resp: 89261

Ion Ratio Lower Upper

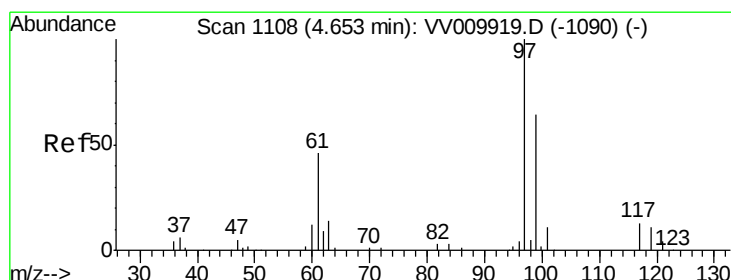
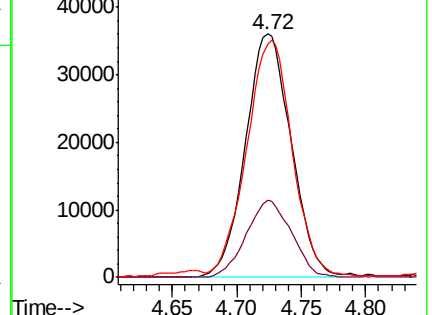
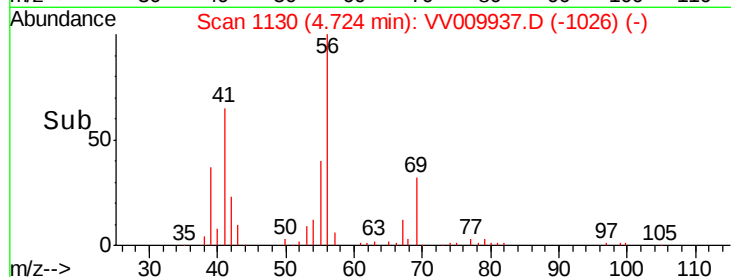
56 100

69 31.3 24.5 36.7

84 96.9 75.6 113.4



Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0



#31

1,1,1-Trichloroethane

Concen: 24.990 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

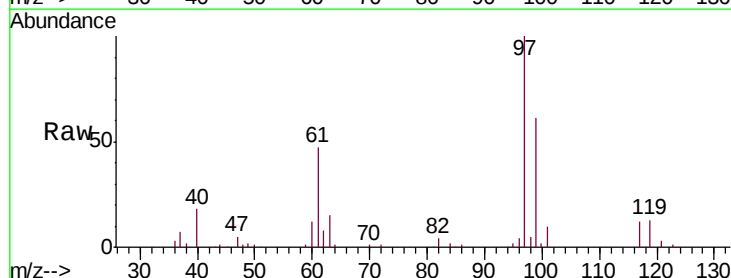
Tgt Ion: 97 Resp: 94107

Ion Ratio Lower Upper

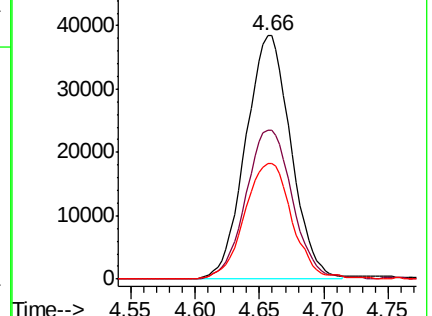
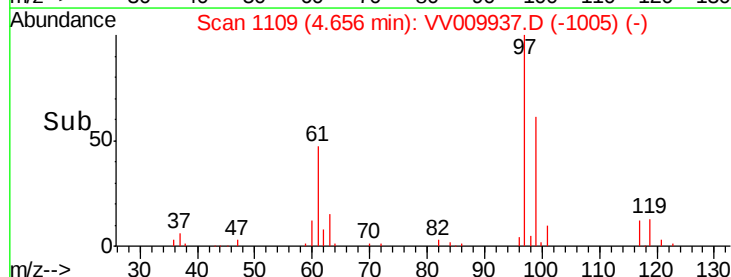
97 100

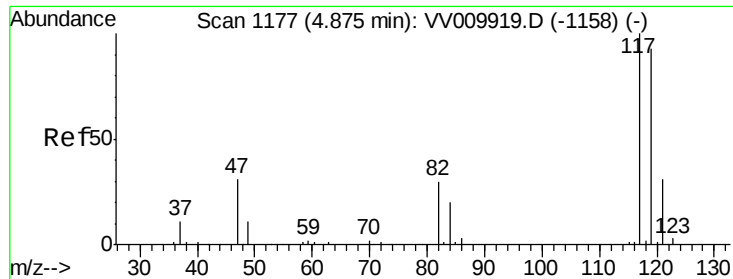
99 63.1 51.5 77.3

61 49.2 39.4 59.0



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.00 (60.70 to 61.70): VV0





#32

Carbon tetrachloride

Concen: 24.768 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

Instrument :

MSVOA_V

ClientSampleId :

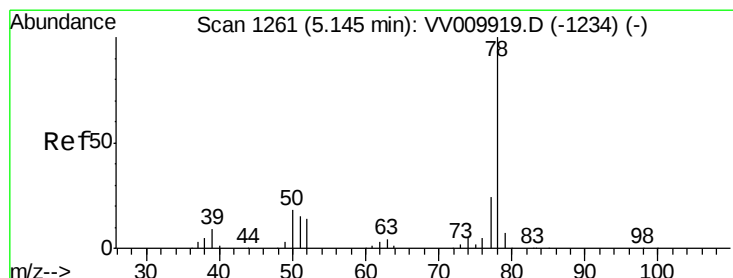
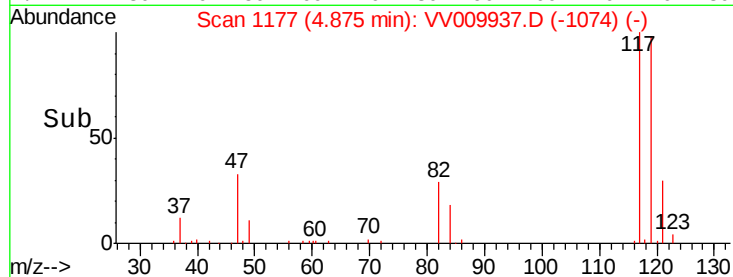
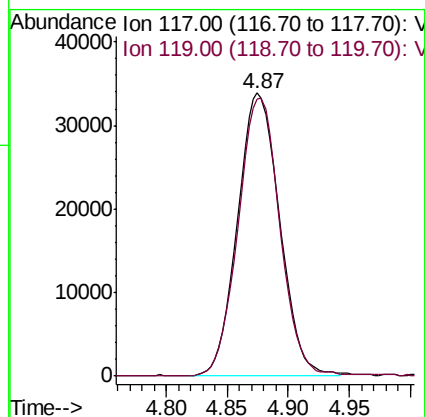
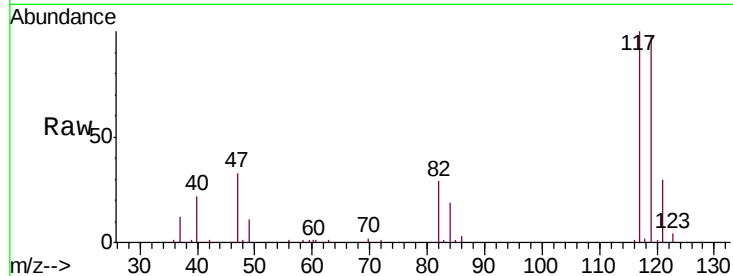
VSTD02567

Tgt Ion:117 Resp: 81070

Ion Ratio Lower Upper

117 100

119 97.3 78.1 117.1



#34

Benzene

Concen: 22.970 ug/L

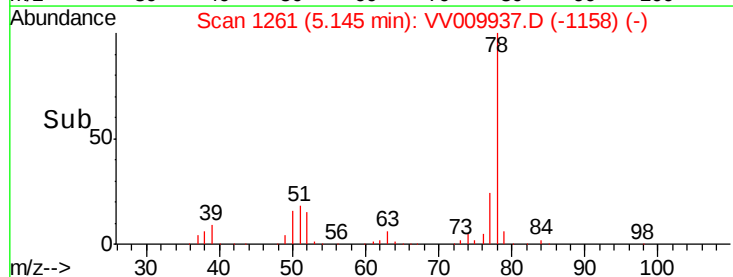
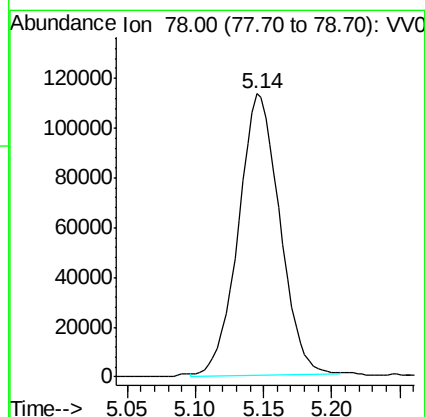
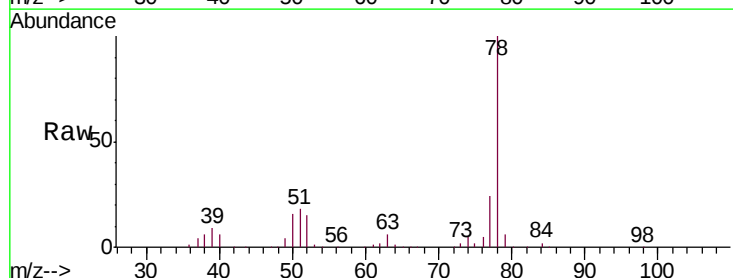
RT: 5.14 min Scan# 1261

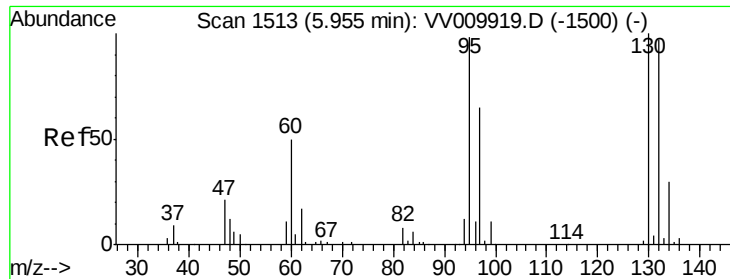
Delta R.T. -0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

Tgt Ion: 78 Resp: 237349

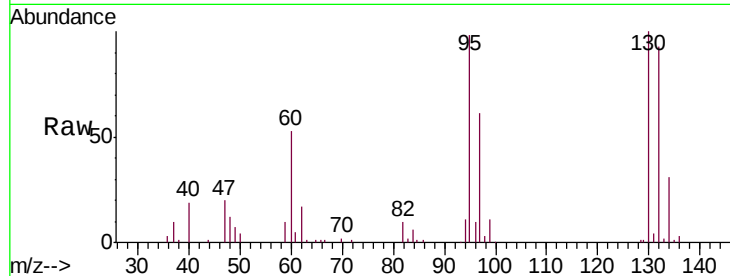




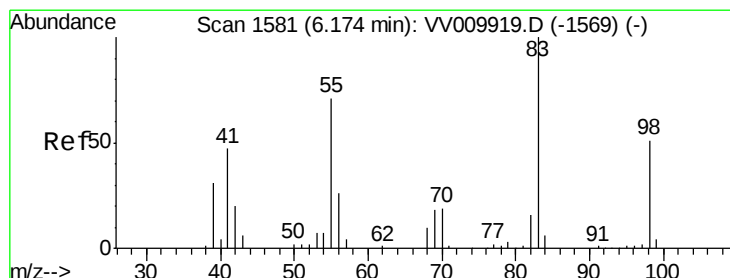
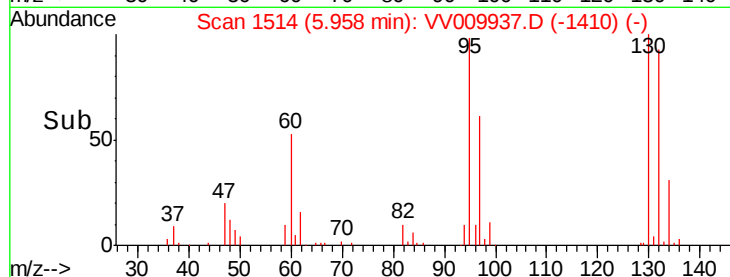
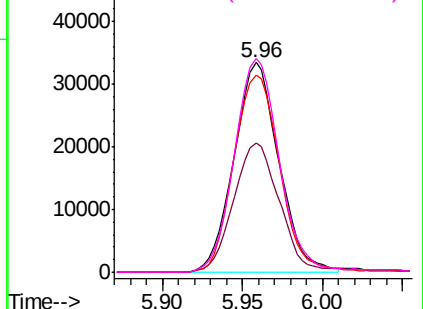
#35
 Trichloroethene
 Concen: 23.419 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV009937.D
 Acq: 27 Mar 2019 19:59

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02567

Tgt Ion: 95 Resp: 63829
 Ion Ratio Lower Upper
 95 100
 97 62.6 46.3 85.9
 132 95.9 69.3 128.7
 130 101.7 69.5 129.1

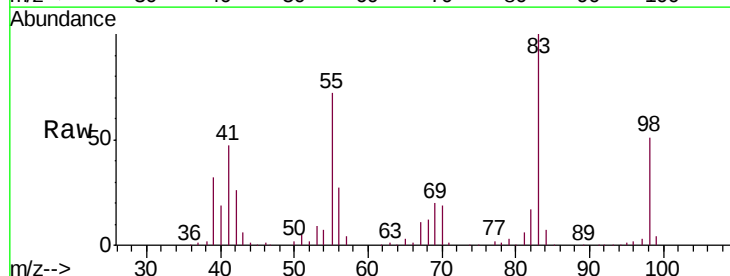


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

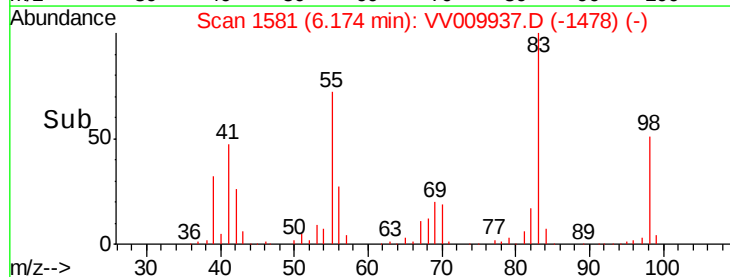
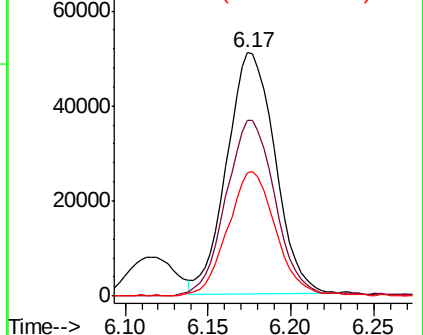


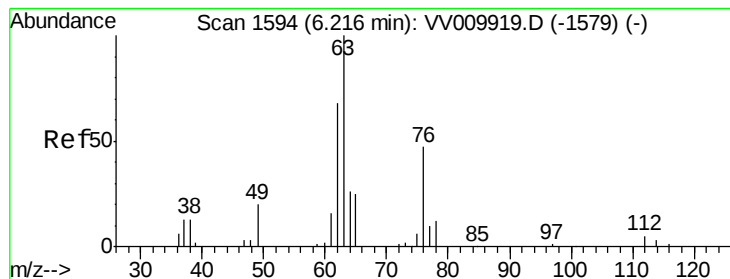
#36
 Methylcyclohexane
 Concen: 23.984 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VV009937.D
 Acq: 27 Mar 2019 19:59

Tgt Ion: 83 Resp: 102565
 Ion Ratio Lower Upper
 83 100
 55 74.7 57.3 85.9
 98 50.4 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: 24.078 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

Instrument :

MSVOA_V

ClientSampleId :

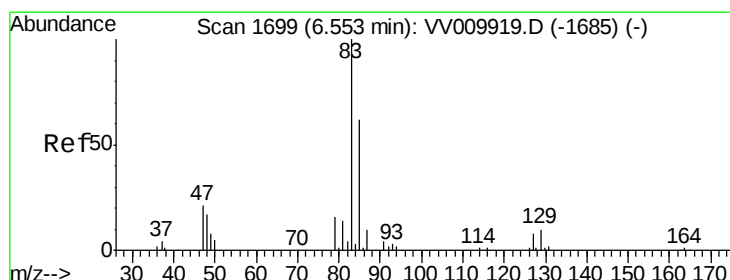
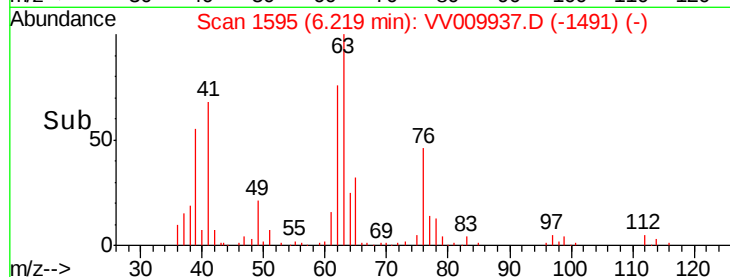
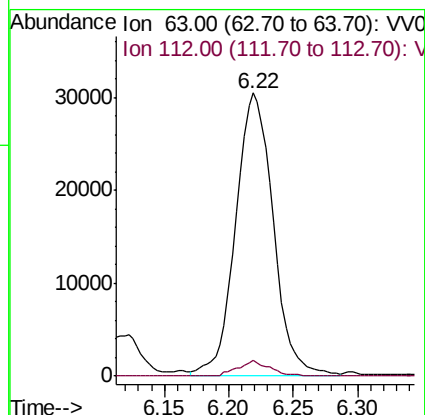
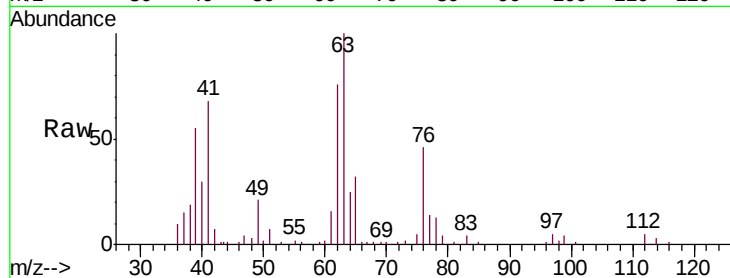
VSTD02567

Tgt Ion: 63 Resp: 62169

Ion Ratio Lower Upper

63 100

112 4.5 2.1 3.1#



#41

Bromodichloromethane

Concen: 24.039 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

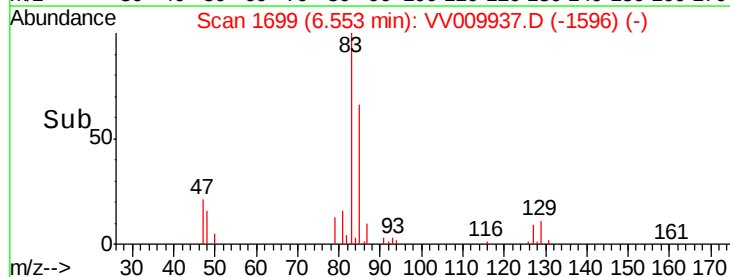
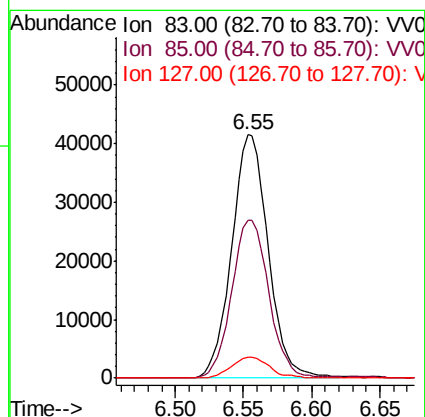
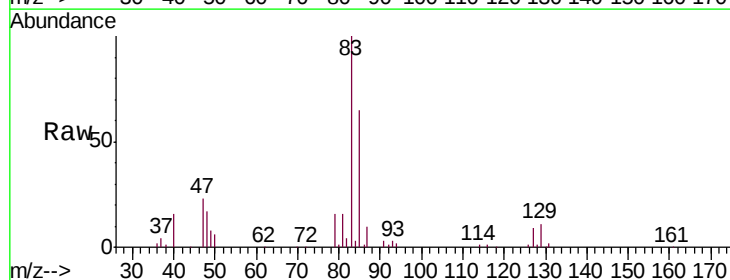
Tgt Ion: 83 Resp: 77189

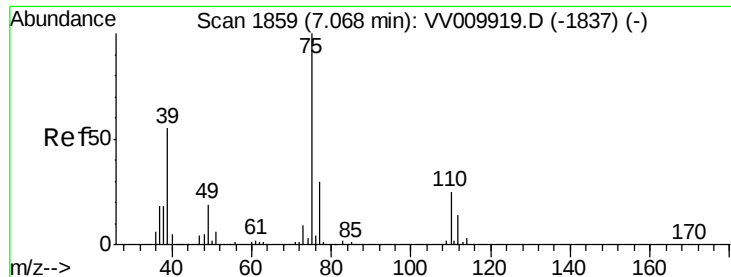
Ion Ratio Lower Upper

83 100

85 64.9 45.6 84.8

127 8.5 6.2 9.4



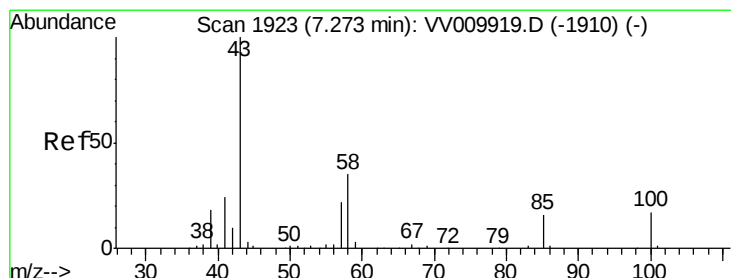
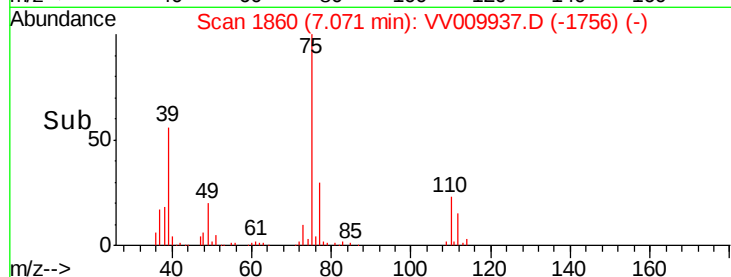
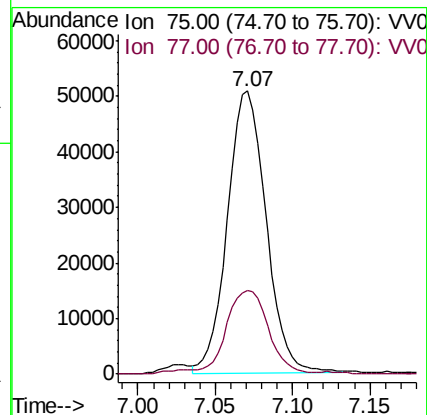
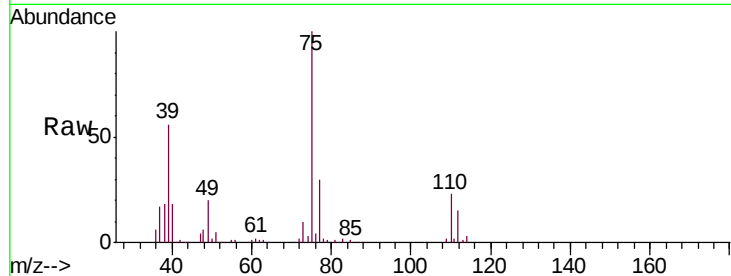


#42

cis-1,3-Dichloropropene
Concen: 23.470 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VV009937.D
Acq: 27 Mar 2019 19:59

Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

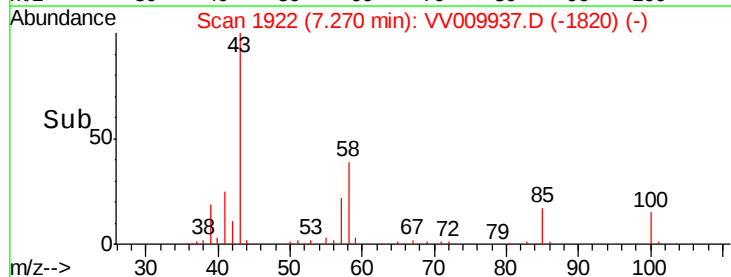
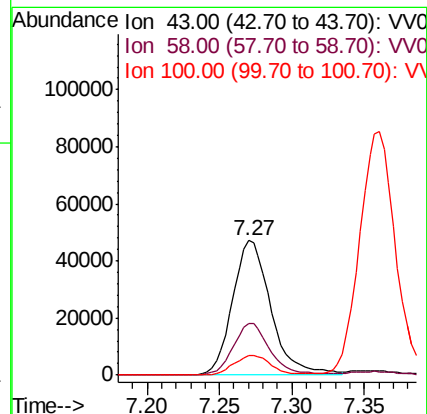
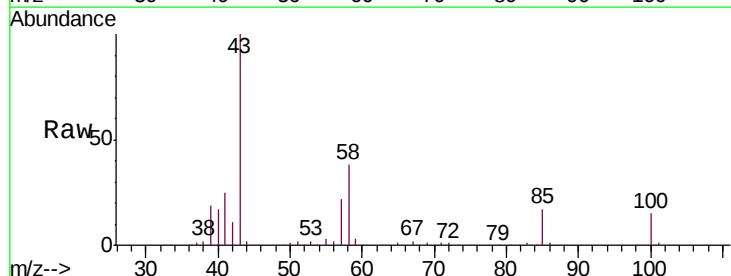
Tgt Ion: 75 Resp: 88353
Ion Ratio Lower Upper
75 100
77 29.6 21.8 40.6

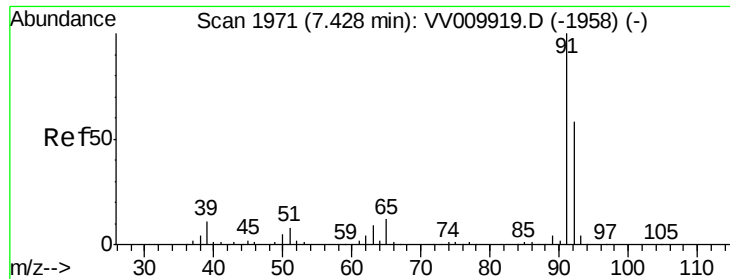


#43

4-Methyl-2-pentanone
Concen: 47.136 ug/L
RT: 7.27 min Scan# 1922
Delta R.T. -0.00 min
Lab File: VV009937.D
Acq: 27 Mar 2019 19:59

Tgt Ion: 43 Resp: 86851
Ion Ratio Lower Upper
43 100
58 36.9 29.4 44.2
100 14.2 12.2 18.4





#44

Toluene

Concen: 24.060 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

Instrument :

MSVOA_V

ClientSampleId :

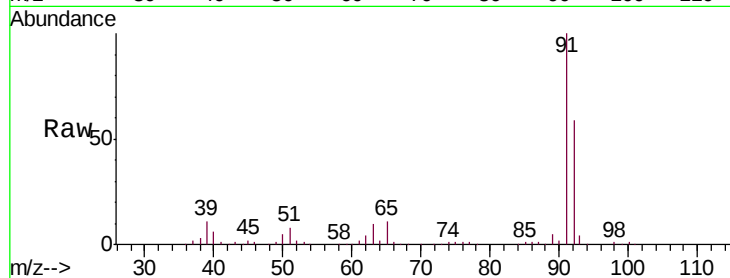
VSTD02567

Tgt Ion: 91 Resp: 274072

Ion Ratio Lower Upper

91 100

92 58.8 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VV009919.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV009919.D (-1958) (-)

7.43

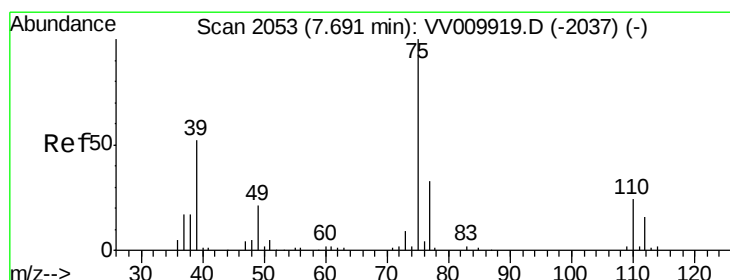
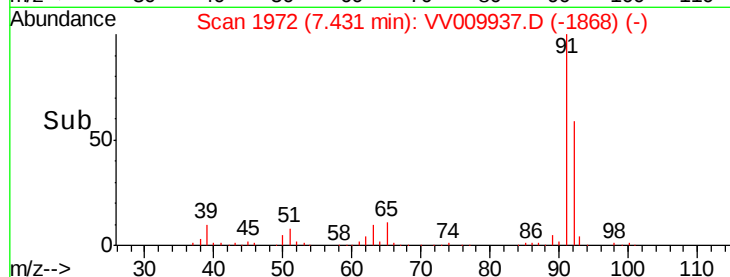
150000

100000

50000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 24.609 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV009937.D

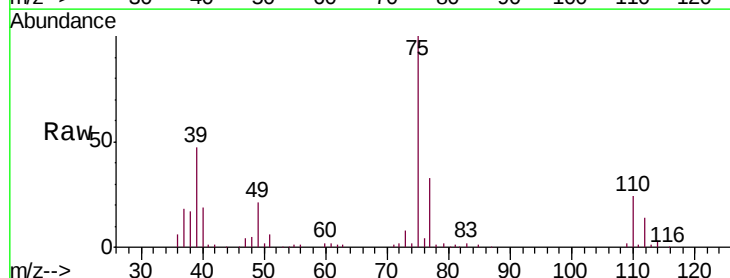
Acq: 27 Mar 2019 19:59

Tgt Ion: 75 Resp: 75835

Ion Ratio Lower Upper

75 100

77 32.6 20.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VV009919.D (-2037) (-)

Ion 77.00 (76.70 to 77.70): VV009919.D (-2037) (-)

7.69

50000

40000

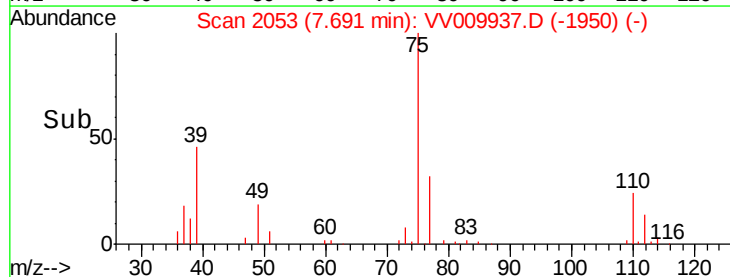
30000

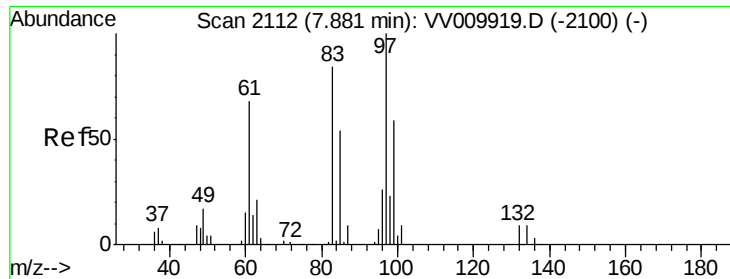
20000

10000

0

Time-->

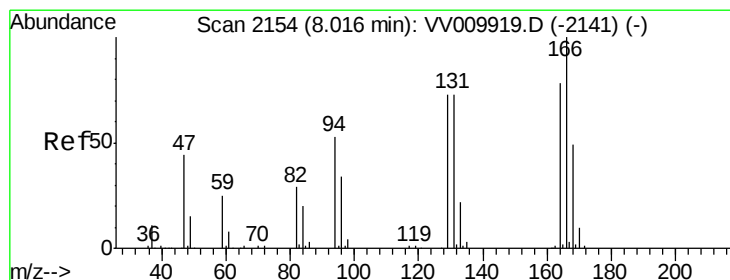
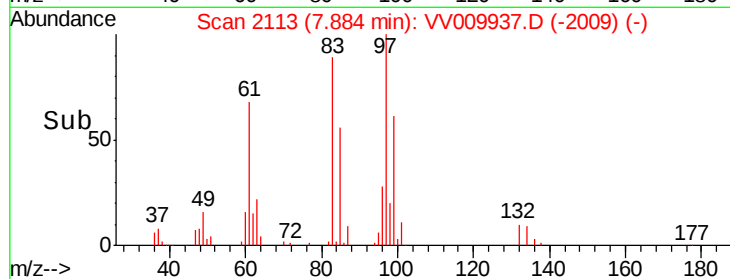
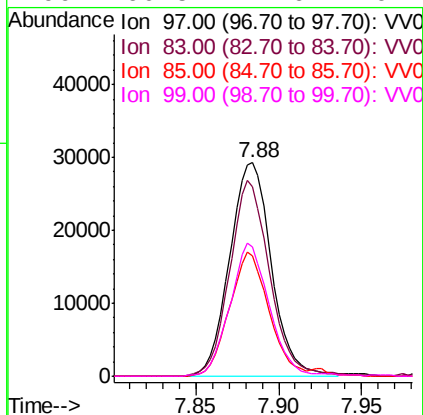
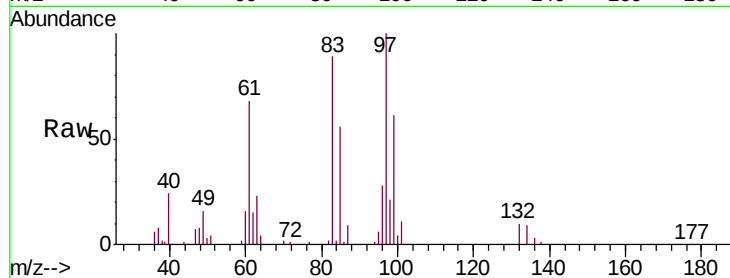




#46
 1,1,2-Trichloroethane
 Concen: 24.020 ug/L
 RT: 7.88 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VV009937.D
 Acq: 27 Mar 2019 19:59

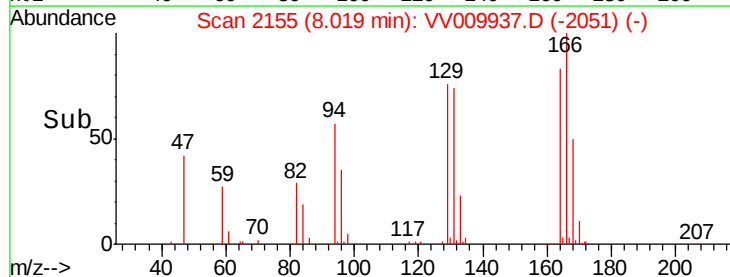
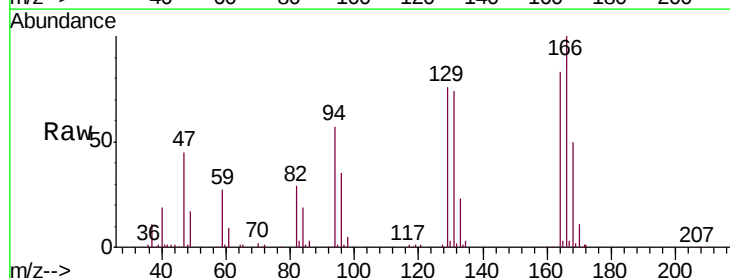
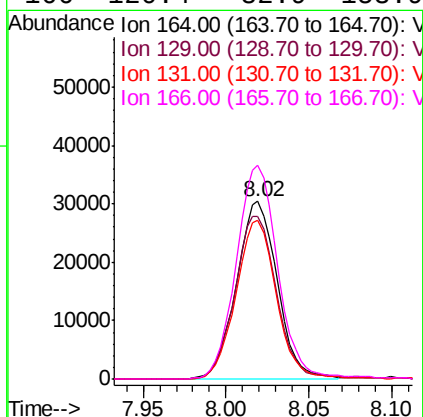
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02567

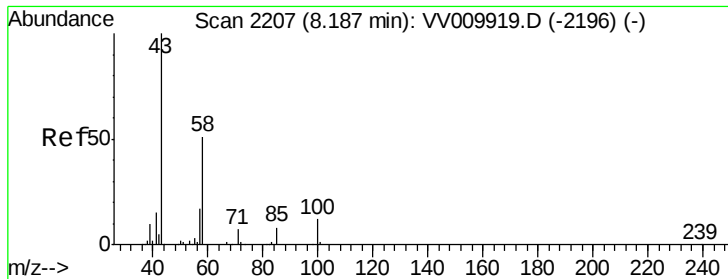
Tgt Ion: 97 Resp: 51294
 Ion Ratio Lower Upper
 97 100
 83 88.9 59.6 110.8
 85 56.4 39.2 72.8
 99 60.5 42.6 79.2



#47
 Tetrachloroethene
 Concen: 24.218 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VV009937.D
 Acq: 27 Mar 2019 19:59

Tgt Ion: 164 Resp: 52088
 Ion Ratio Lower Upper
 164 100
 129 91.7 64.9 120.5
 131 89.3 62.0 115.2
 166 120.4 82.9 153.9

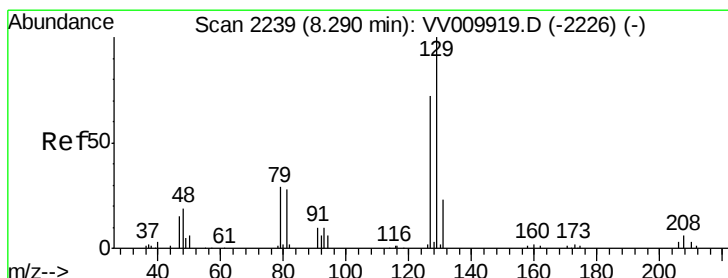
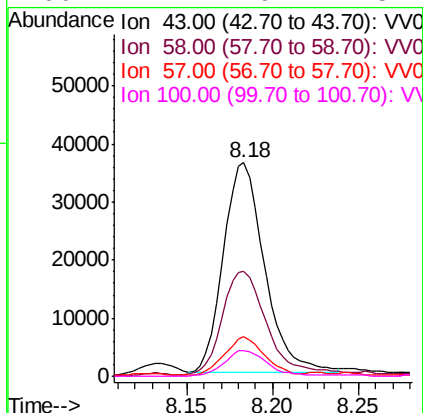
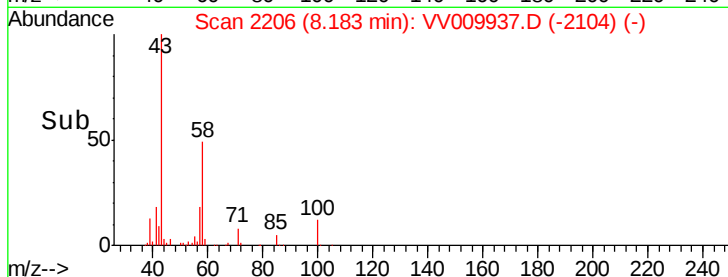
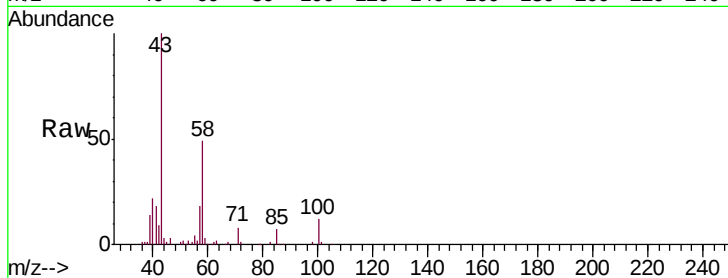




#49
2-Hexanone
Concen: 48.236 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. -0.00 min
Lab File: VV009937.D
Acq: 27 Mar 2019 19:59

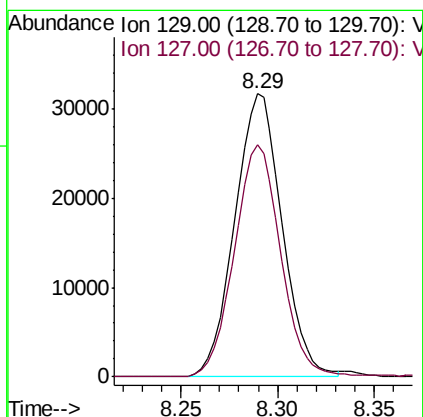
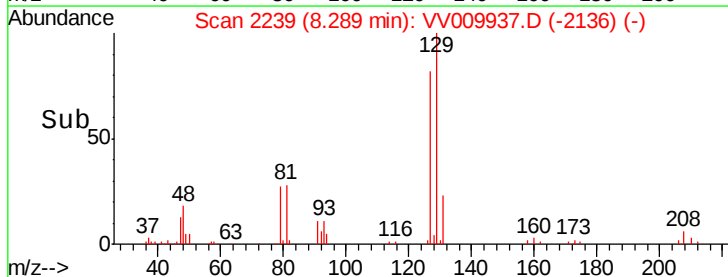
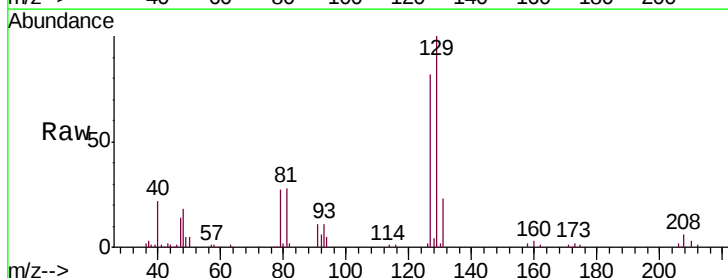
Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

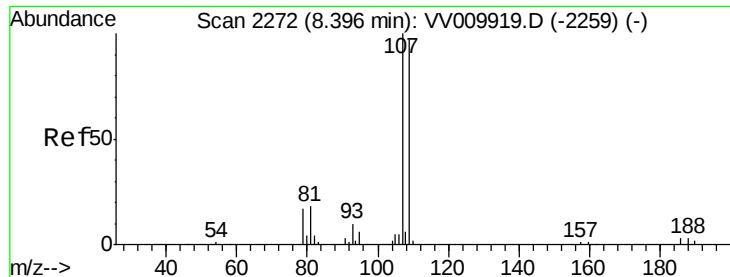
Tgt Ion: 43 Resp: 60068
Ion Ratio Lower Upper
43 100
58 54.1 42.0 63.0
57 17.7 12.9 19.3
100 12.7 9.1 13.7



#50
Dibromochloromethane
Concen: 24.279 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV009937.D
Acq: 27 Mar 2019 19:59

Tgt Ion: 129 Resp: 53760
Ion Ratio Lower Upper
129 100
127 82.1 57.9 107.5





#51

1,2-Dibromoethane

Concen: 23.823 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

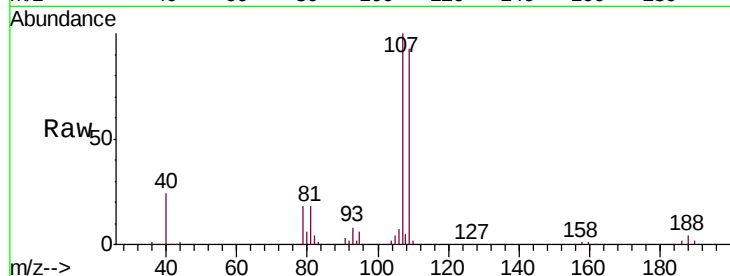
Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

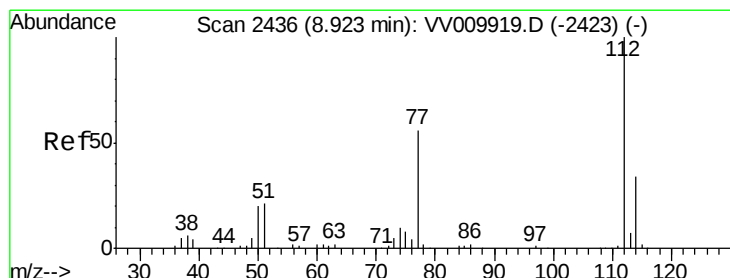
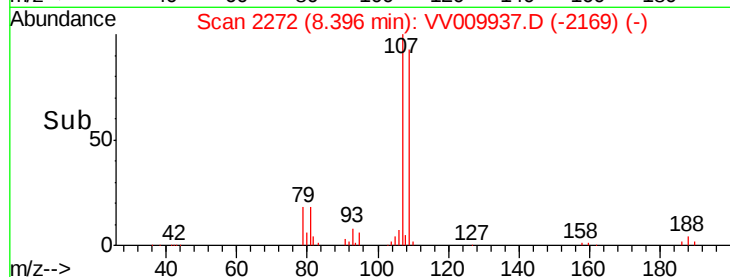
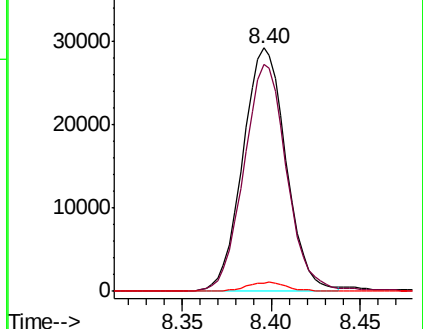
Tgt Ion:	107	Resp:	49397
Ion	Ratio	Lower	Upper
107	100		
109	93.4	61.8	114.8
188	3.6	3.5	5.3



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: 23.208 ug/L

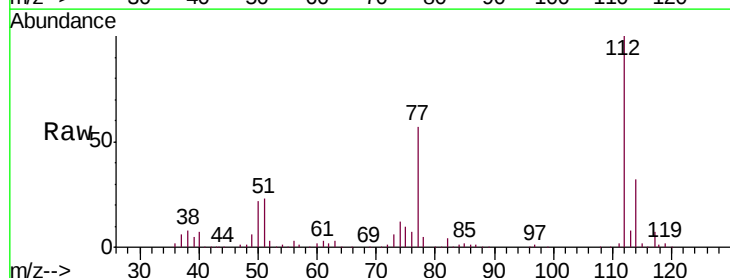
RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

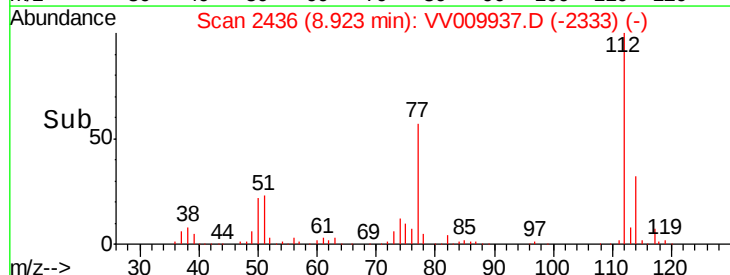
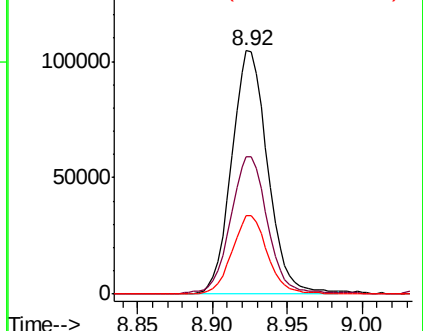
Tgt Ion:	112	Resp:	175996
Ion	Ratio	Lower	Upper
112	100		
77	56.7	46.8	70.2
114	32.2	22.3	41.5

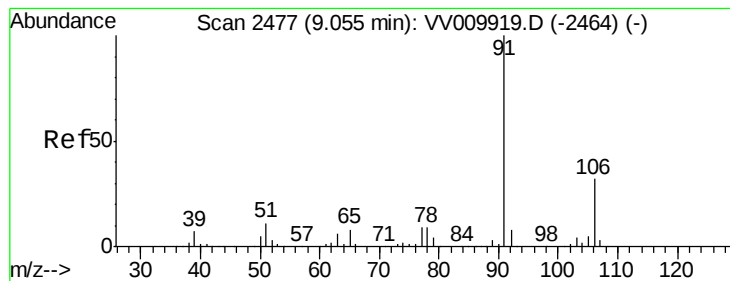


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 24.196 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

Instrument :

MSVOA_V

ClientSampleId :

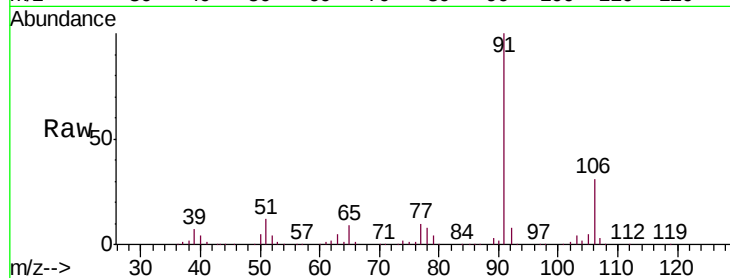
VSTD02567

Tgt Ion: 91 Resp: 304042

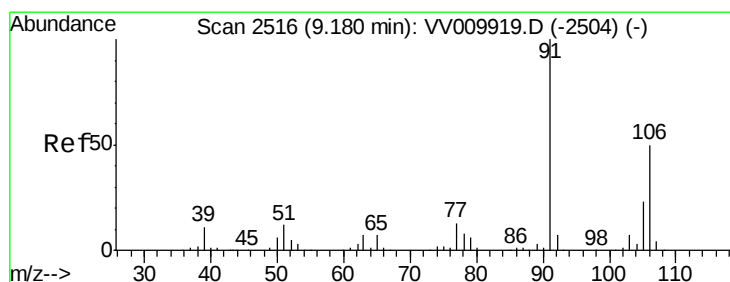
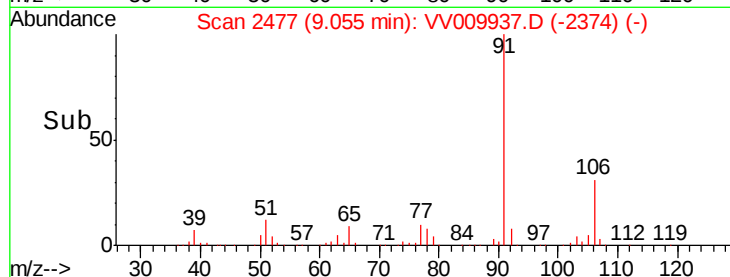
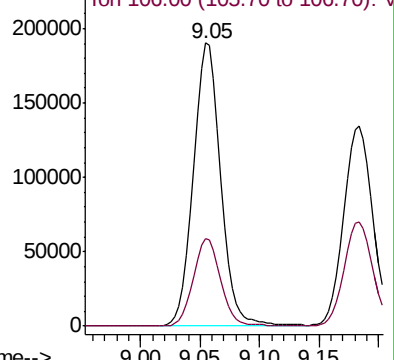
Ion Ratio Lower Upper

91 100

106 31.0 22.3 41.3



Abundance Ion 91.00 (90.70 to 91.70): VV009937.D (-2413) (-)



#54

m,p-Xylene

Concen: 23.660 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV009937.D

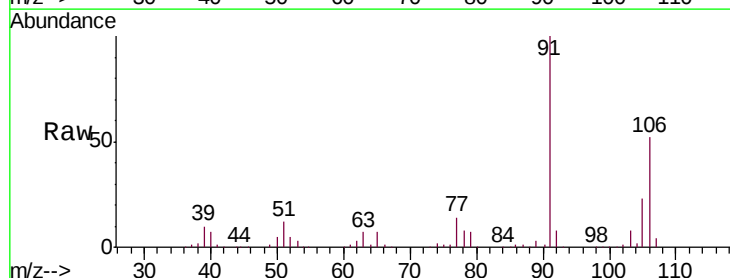
Acq: 27 Mar 2019 19:59

Tgt Ion: 106 Resp: 116768

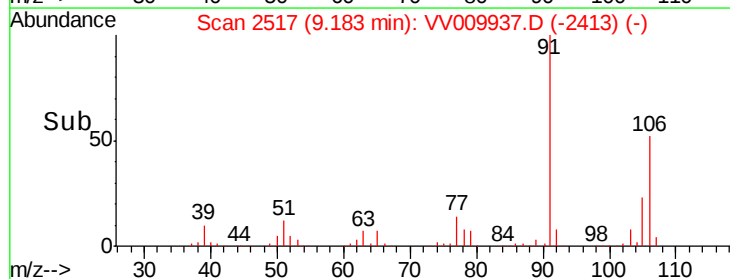
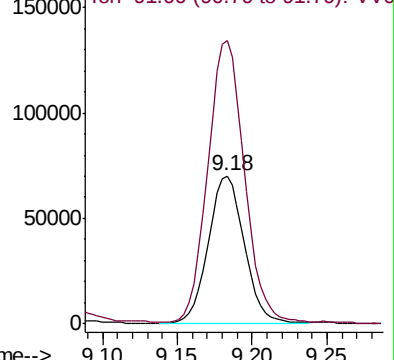
Ion Ratio Lower Upper

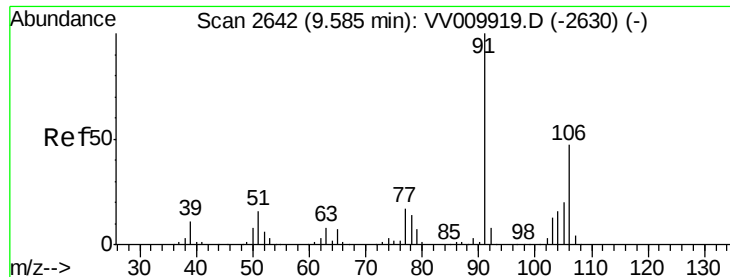
106 100

91 191.0 130.0 241.4



Abundance Ion 106.00 (105.70 to 106.70): VV009937.D (-2413) (-)





#55

o-xylene

Concen: 22.961 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

Instrument :

MSVOA_V

ClientSampleId :

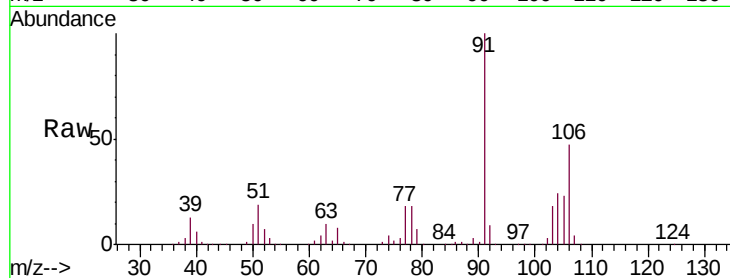
VSTD02567

Tgt Ion:106 Resp: 109994

Ion Ratio Lower Upper

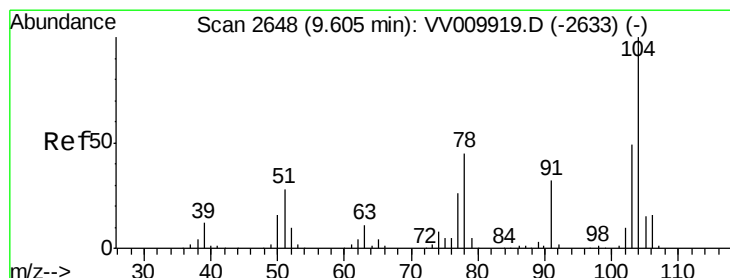
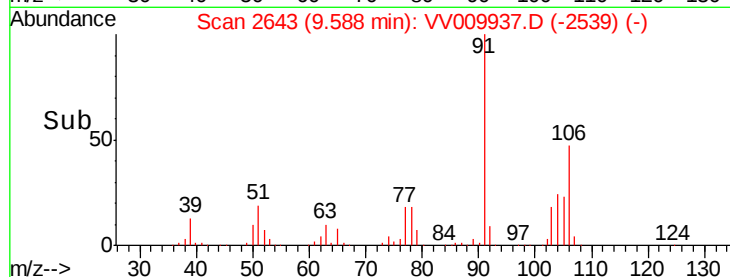
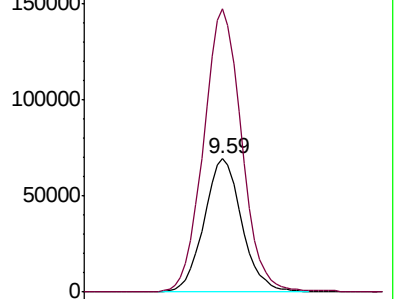
106 100

91 212.5 144.3 268.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 23.518 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV009937.D

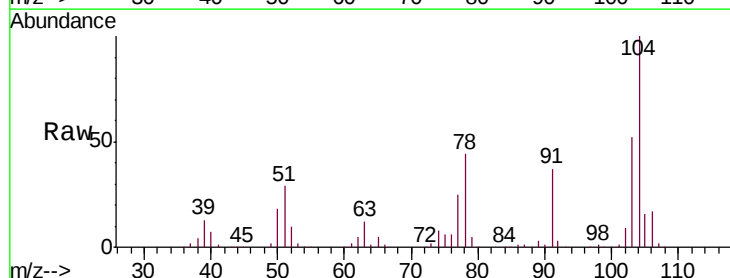
Acq: 27 Mar 2019 19:59

Tgt Ion:104 Resp: 193517

Ion Ratio Lower Upper

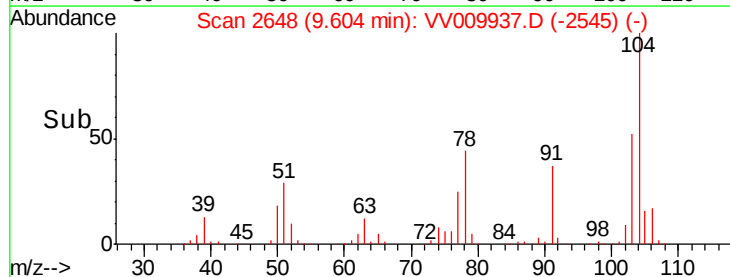
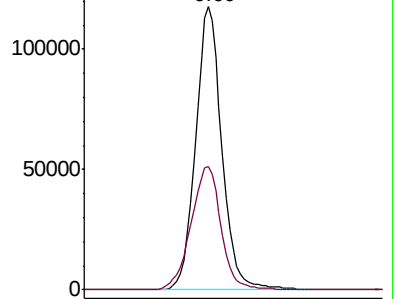
104 100

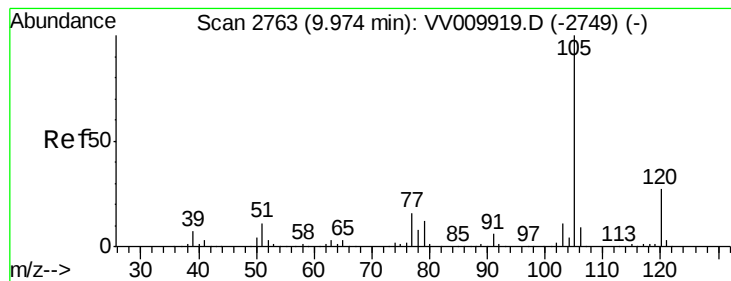
78 43.7 29.3 54.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 23.846 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

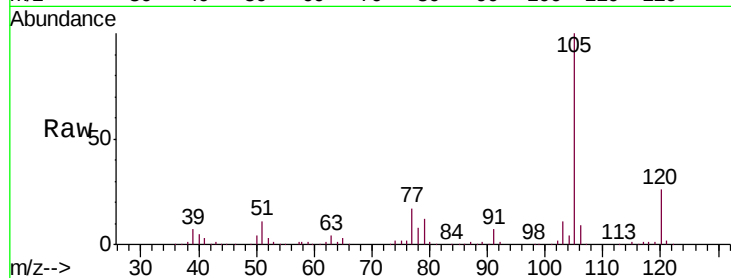
Tgt Ion: 105 Resp: 296344

Ion Ratio Lower Upper

105 100

120 26.4 20.8 31.2

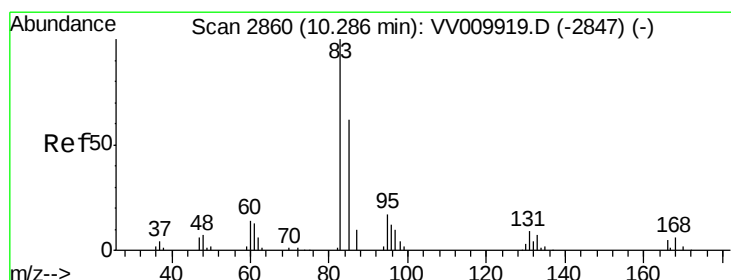
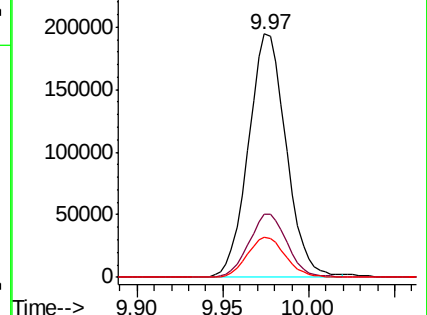
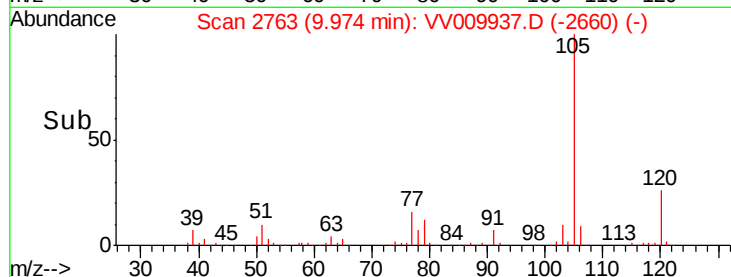
77 16.8 13.0 19.4



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 22.726 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

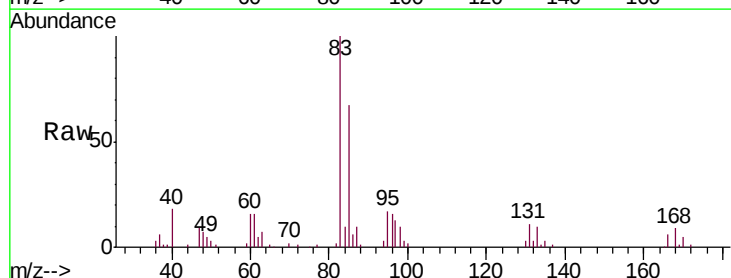
Tgt Ion: 83 Resp: 65414

Ion Ratio Lower Upper

83 100

85 67.3 45.8 85.0

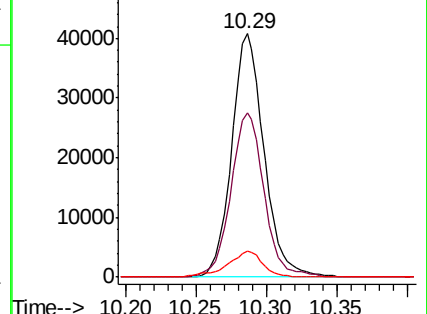
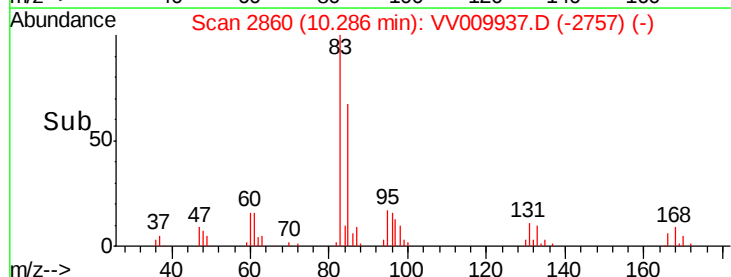
131 10.7 6.2 9.4#

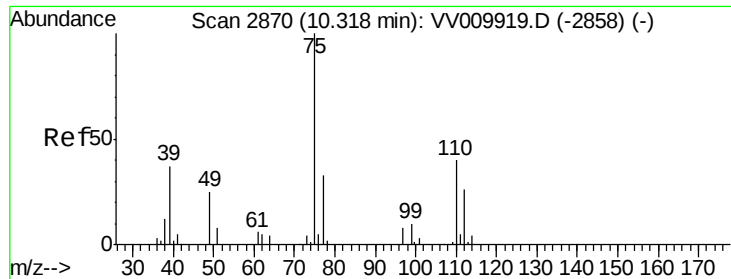


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 22.681 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

Instrument :

MSVOA_V

ClientSampleId :

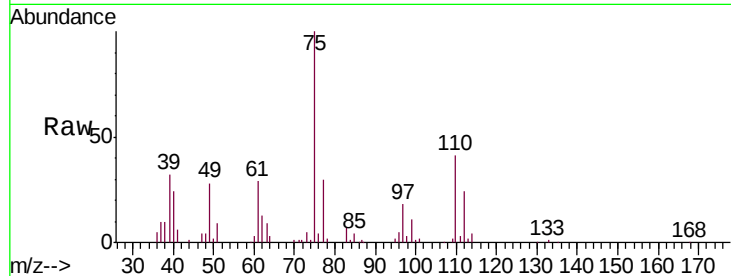
VSTD02567

Tgt Ion: 75 Resp: 47118

Ion Ratio Lower Upper

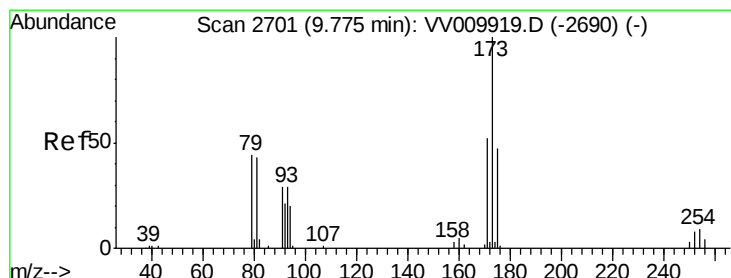
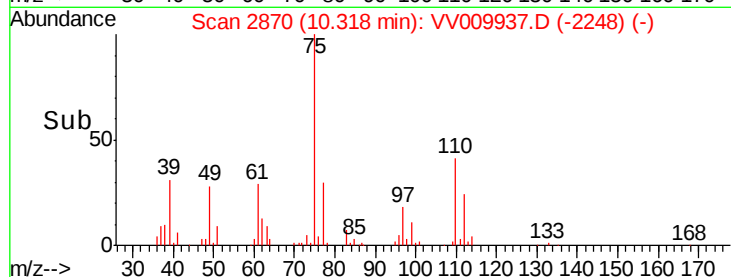
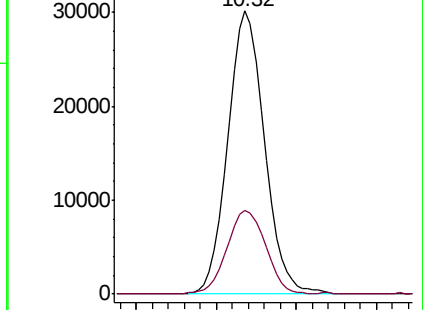
75 100

77 31.4 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VV009919.D (-2858) (-)

Ion 77.00 (76.70 to 77.70): VV009919.D (-2858) (-)



#62

Bromoform

Concen: 22.058 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

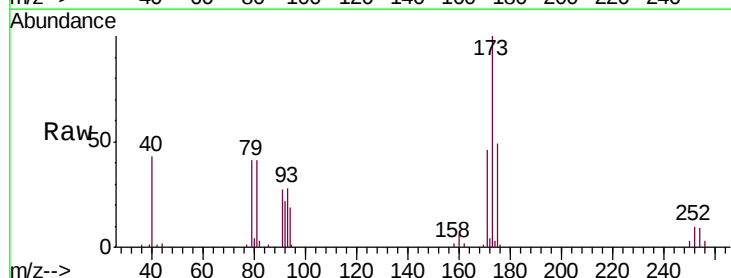
Tgt Ion: 173 Resp: 26205

Ion Ratio Lower Upper

173 100

175 50.6 37.8 56.8

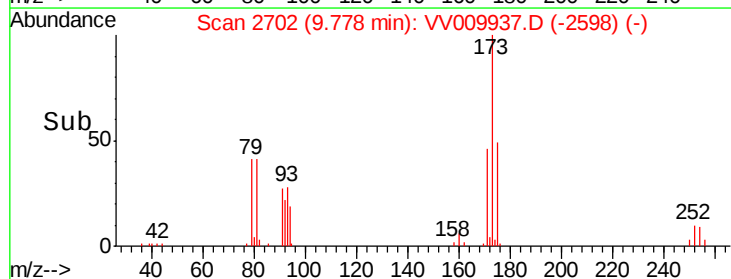
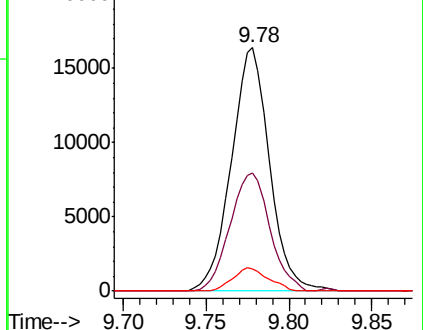
254 8.9 6.6 9.8

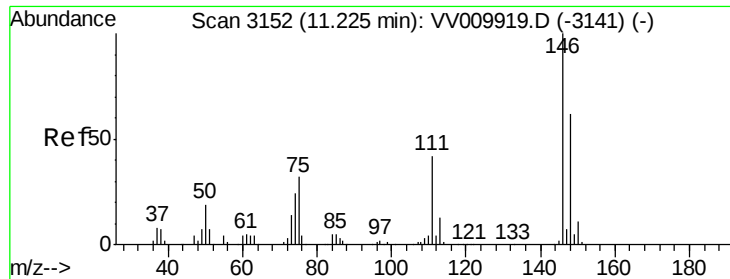


Abundance Ion 173.00 (172.70 to 173.70): VV009919.D (-2690) (-)

Ion 175.00 (174.70 to 175.70): VV009919.D (-2690) (-)

Ion 254.00 (253.70 to 254.70): VV009919.D (-2690) (-)





#63

1,3-Dichlorobenzene

Concen: 23.015 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. 0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

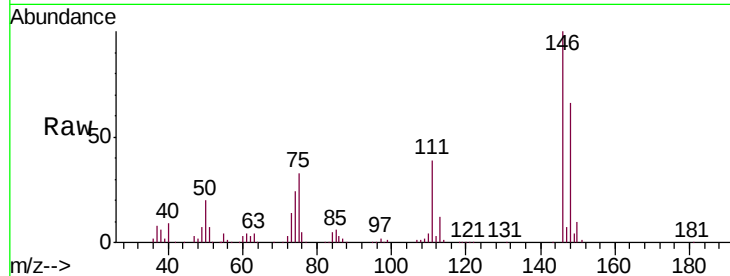
Tgt Ion:146 Resp: 131474

Ion Ratio Lower Upper

146 100

111 38.7 28.5 52.9

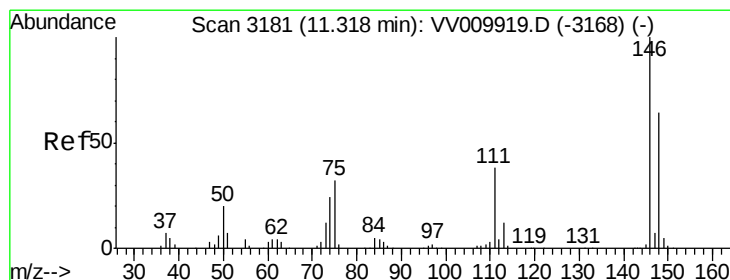
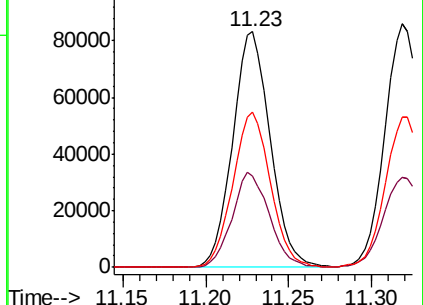
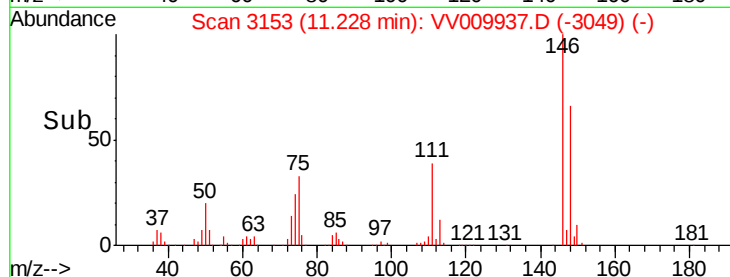
148 66.0 45.0 83.6



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: 21.961 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. -0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

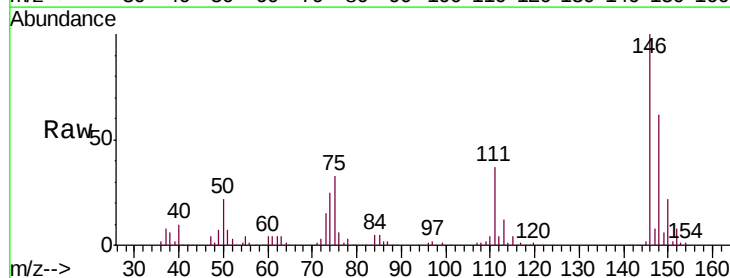
Tgt Ion:146 Resp: 136344

Ion Ratio Lower Upper

146 100

111 37.2 25.4 47.2

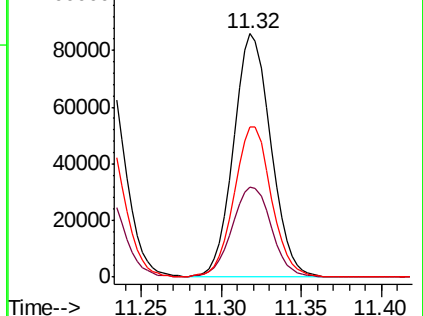
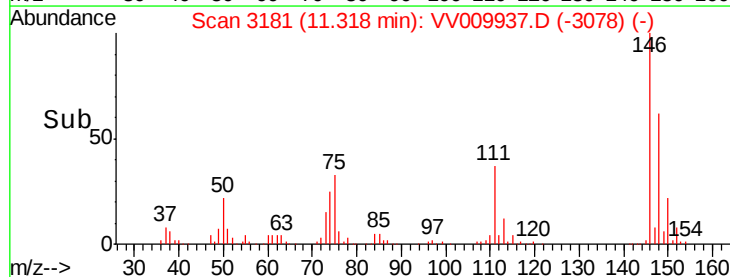
148 61.6 44.1 81.9

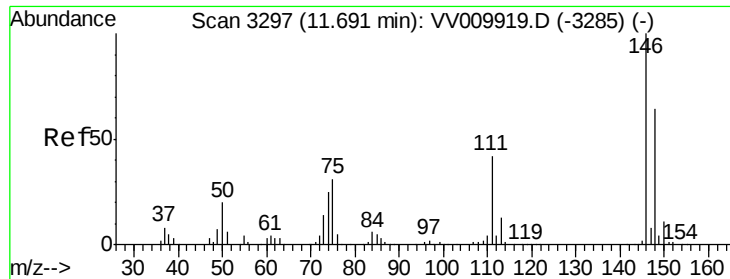


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

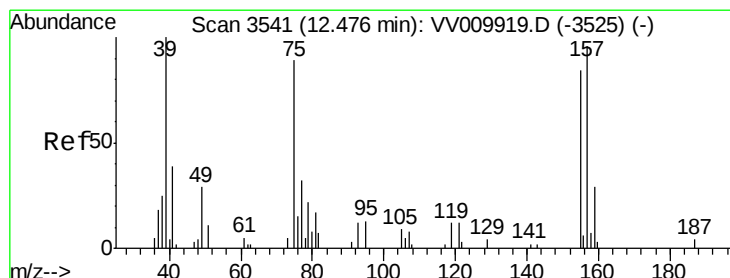
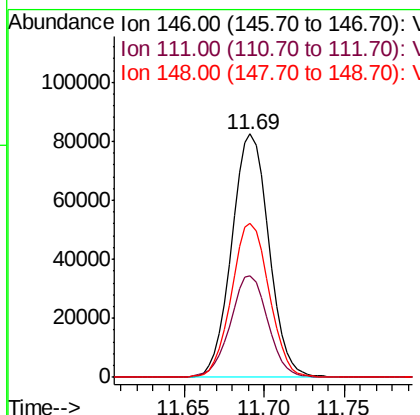
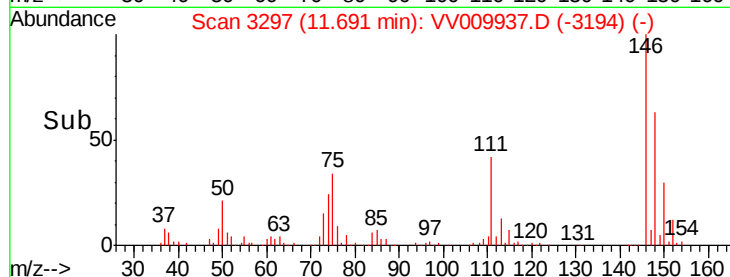
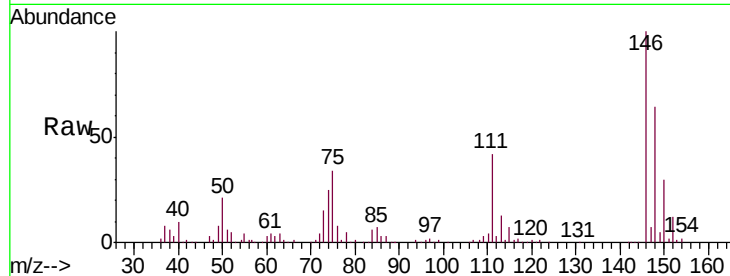




#65
 1,2-Dichlorobenzene
 Concen: 23.131 ug/L
 RT: 11.69 min Scan# 3297
 Delta R.T. -0.00 min
 Lab File: VV009937.D
 Acq: 27 Mar 2019 19:59

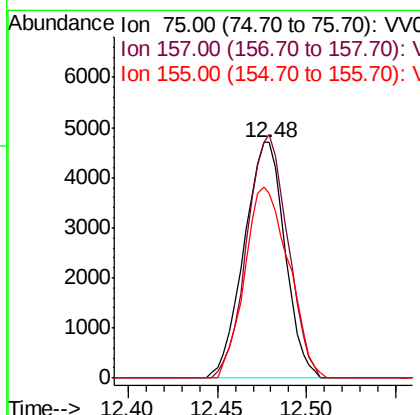
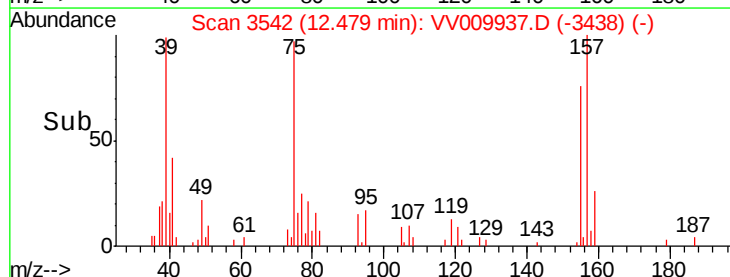
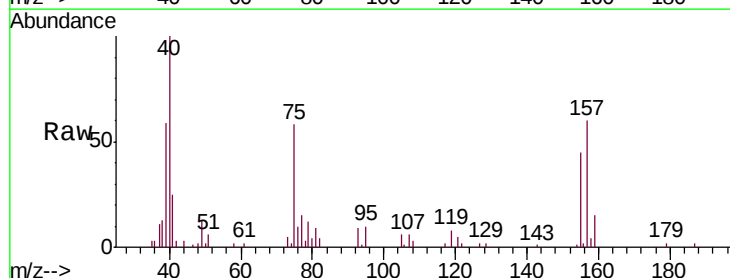
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02567

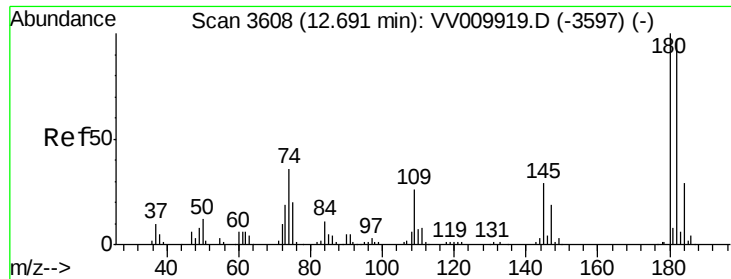
Tgt Ion: 146 Resp: 130409
 Ion Ratio Lower Upper
 146 100
 111 41.9 32.7 49.1
 148 63.5 50.5 75.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 21.335 ug/L
 RT: 12.48 min Scan# 3542
 Delta R.T. 0.00 min
 Lab File: VV009937.D
 Acq: 27 Mar 2019 19:59

Tgt Ion: 75 Resp: 7518
 Ion Ratio Lower Upper
 75 100
 157 110.1 89.2 133.8
 155 78.1 68.6 102.8

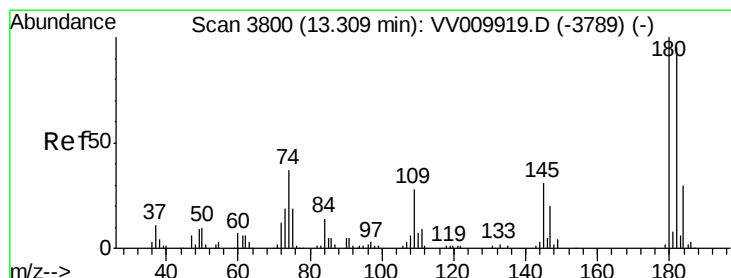
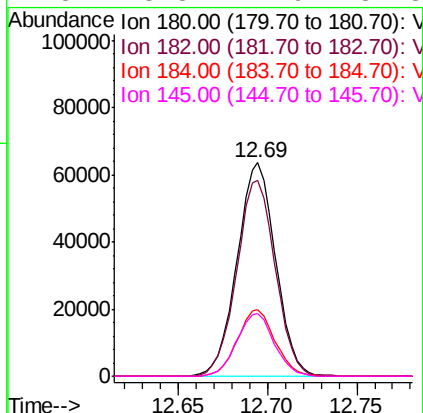
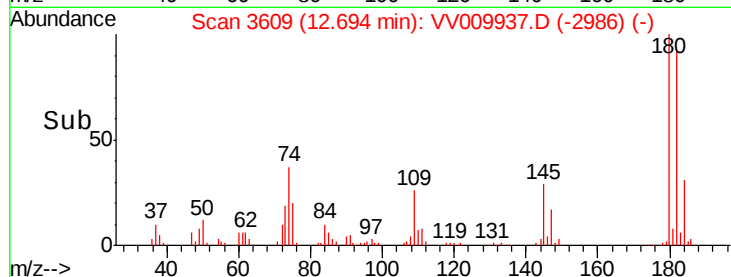
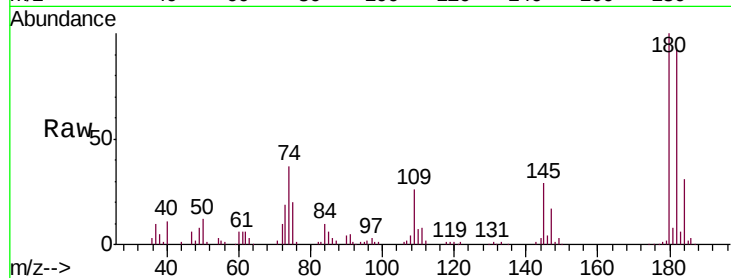




#67
 1,3,5-Trichlorobenzene
 Concen: 23.614 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV009937.D
 Acq: 27 Mar 2019 19:59

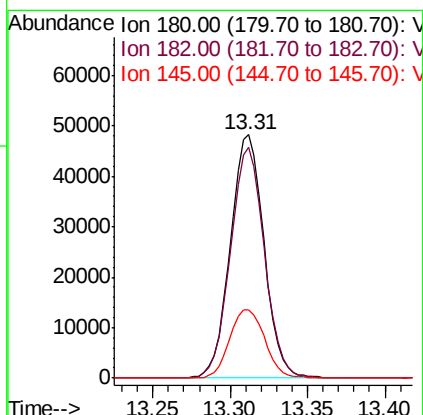
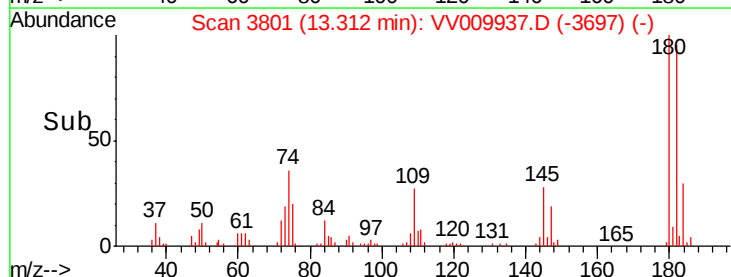
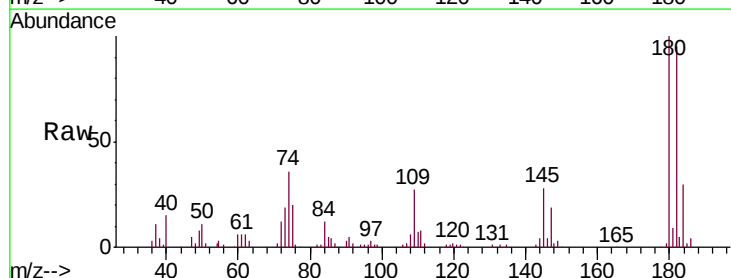
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02567

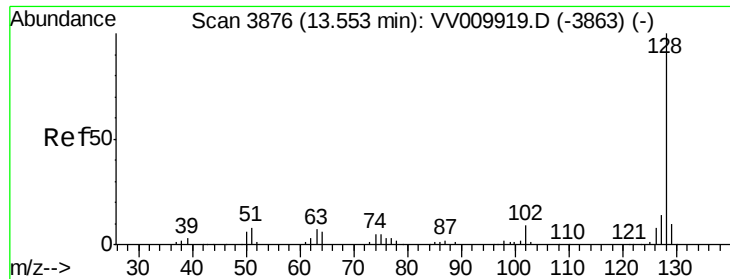
Tgt Ion:180 Resp: 95800
 Ion Ratio Lower Upper
 180 100
 182 92.2 78.4 117.6
 184 30.3 24.3 36.5
 145 28.8 24.9 37.3



#68
 1,2,4-trichlorobenzene
 Concen: 24.285 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009937.D
 Acq: 27 Mar 2019 19:59

Tgt Ion:180 Resp: 72677
 Ion Ratio Lower Upper
 180 100
 182 95.5 75.5 113.3
 145 29.5 23.2 34.8





#69

Naphthalene

Concen: 22.753 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

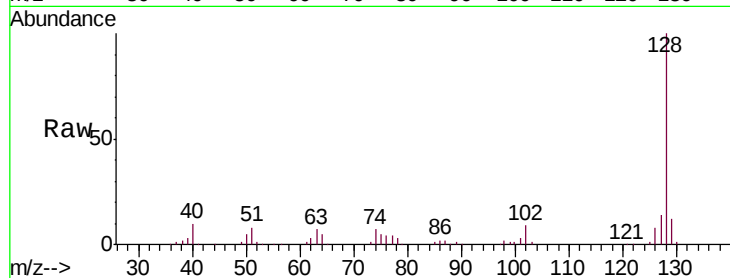
Tgt Ion:128 Resp: 113188

Ion Ratio Lower Upper

128 100

129 11.8 8.8 13.2

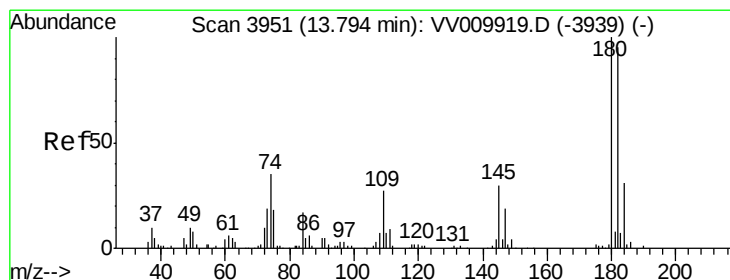
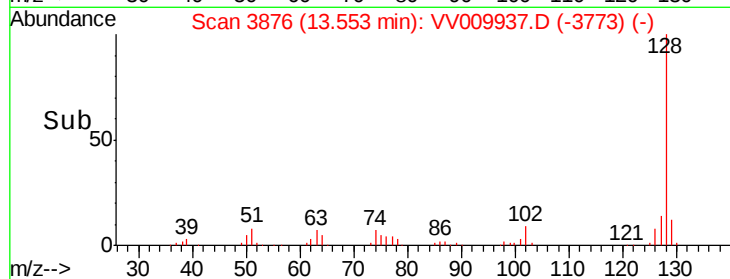
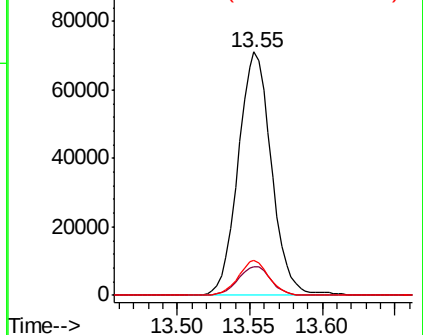
127 13.1 11.4 17.2



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: 23.610 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VV009937.D

Acq: 27 Mar 2019 19:59

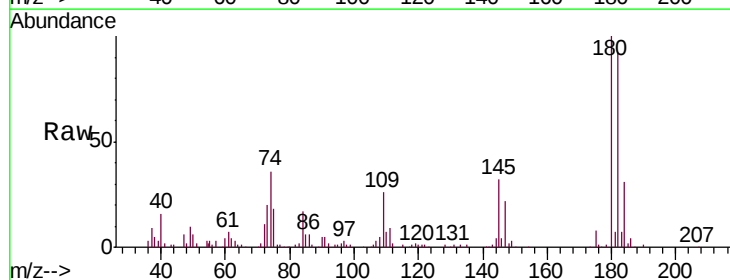
Tgt Ion:180 Resp: 67185

Ion Ratio Lower Upper

180 100

182 93.9 77.1 115.7

145 31.9 26.3 39.5



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

