

Data File : VV009059.D
Acq On : 19 Dec 2018 20:00
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02568

Quant Time: Dec 20 02:04:27 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis
QLast Update : Thu Dec 20 01:58:47 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	286924	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	251705	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	121212	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	55072	18.55	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	74.20%
7) Chloroethane-d5	1.58	69	59385	27.07	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	108.28%
10) 1,1-Dichloroethene-d2	2.13	63	149539	20.14	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	80.56%
20) 2-Butanone-d5	3.94	46	41268	38.18	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	76.36%
24) Chloroform-d	4.40	84	154231	22.36	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	89.44%
26) 1,2-Dichloroethane-d4	5.08	65	85136	22.62	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	90.48%
29) Benzene-d6	5.10	84	298693	21.25	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	85.00%
33) 1,2-Dichloropropane-d6	6.12	67	88808	22.57	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	90.28%
37) Toluene-d8	7.36	98	274142	21.07	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	84.28%
38) trans-1,3-Dichloropropene-	7.66	79	39446	22.81	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	91.24%
39) 2-Hexanone-d5	8.14	63	27907	38.71	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	77.42%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	70017	21.21	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	84.84%
61) 1,2-Dichlorobenzene-d4	11.67	152	95216	20.93	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	83.72%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	89492	19.027 ug/L	99
3) Chloromethane	1.25	50	67304	20.824 ug/L	100
5) Vinyl chloride	1.32	62	75469	20.917 ug/L	100
6) Bromomethane	1.53	94	52494	30.261 ug/L	98
8) Chloroethane	1.60	64	62752	31.053 ug/L	99
9) Trichlorofluoromethane	1.77	101	169306	27.396 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	96889	22.859 ug/L	97
12) 1,1-Dichloroethene	2.14	96	82565	22.323 ug/L	99
13) Acetone	2.19	43	62900	39.493 ug/L	97
14) Carbon disulfide	2.32	76	250368	21.081 ug/L	100
15) Methyl Acetate	2.46	43	36805	18.224 ug/L	94
16) Methylene chloride	2.53	84	101575	21.023 ug/L	97
17) Methyl tert-butyl Ether	2.80	73	207081	24.644 ug/L	96
18) trans-1,2-Dichloroethene	2.79	96	94350	23.607 ug/L	98
19) 1,1-Dichloroethane	3.23	63	157101	24.248 ug/L	99
21) 2-Butanone	4.02	43	61167	40.976 ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	100776	24.183 ug/L	99

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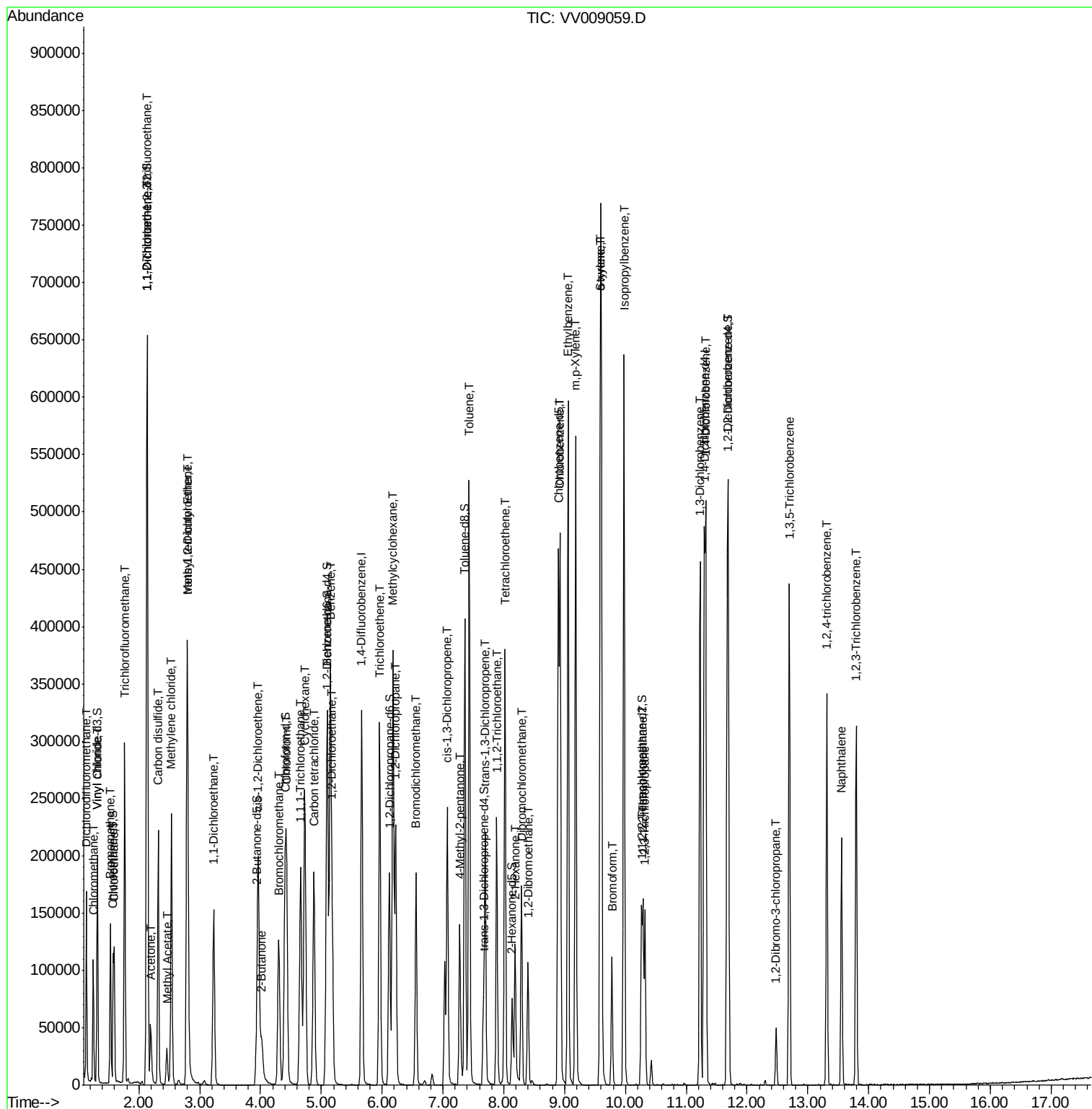
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	48819	24.856	ug/L	99
25) Chloroform	4.43	83	176538	25.389	ug/L	100
27) 1,2-Dichloroethane	5.18	62	115743	24.436	ug/L	99
30) Cyclohexane	4.73	56	141091	22.261	ug/L	98
31) 1,1,1-Trichloroethane	4.66	97	157741	24.307	ug/L	99
32) Carbon tetrachloride	4.88	117	142448	24.043	ug/L	99
34) Benzene	5.15	78	358506	23.773	ug/L	100
35) Trichloroethene	5.96	95	109268	24.034	ug/L	99
36) Methylcyclohexane	6.18	83	170647	23.534	ug/L	98
40) 1,2-Dichloropropane	6.22	63	89980	24.861	ug/L	99
41) Bromodichloromethane	6.56	83	123754	25.942	ug/L	98
42) cis-1,3-Dichloropropene	7.07	75	135544	25.580	ug/L	97
43) 4-Methyl-2-pentanone	7.27	43	97260	39.758	ug/L	99
44) Toluene	7.43	91	386033	24.409	ug/L	97
45) trans-1,3-Dichloropropene	7.69	75	118726	25.703	ug/L	96
46) 1,1,2-Trichloroethane	7.88	97	73647	24.421	ug/L	99
47) Tetrachloroethene	8.02	164	85281	23.065	ug/L	98
49) 2-Hexanone	8.19	43	78372	38.725	ug/L	98
50) Dibromochloromethane	8.29	129	92906	26.876	ug/L	100
51) 1,2-Dibromoethane	8.40	107	72592	23.971	ug/L	97
52) Chlorobenzene	8.93	112	255474	24.808	ug/L	99
53) Ethylbenzene	9.06	91	425008	24.772	ug/L	98
54) m,p-Xylene	9.18	106	163465	25.163	ug/L	97
55) o-xylene	9.59	106	154298	25.564	ug/L	98
56) Styrene	9.60	104	253655	26.051	ug/L	97
57) Isopropylbenzene	9.98	105	412722	25.159	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	72916	22.366	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	61378	21.758	ug/L	99
62) Bromoform	9.78	173	52062	23.789	ug/L	100
63) 1,3-Dichlorobenzene	11.23	146	187823	24.047	ug/L	97
64) 1,4-Dichlorobenzene	11.32	146	191003	23.764	ug/L	97
65) 1,2-Dichlorobenzene	11.69	146	175006	24.305	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	12366	20.962	ug/L	94
67) 1,3,5-Trichlorobenzene	12.69	180	134756	23.886	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	101574	25.696	ug/L	100
69) Naphthalene	13.55	128	168624	24.767	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	93503	25.605	ug/L	100

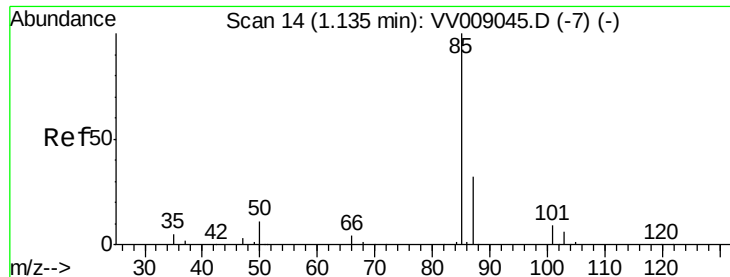
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 19.027 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

Instrument :

MSVOA_V

ClientSampleId :

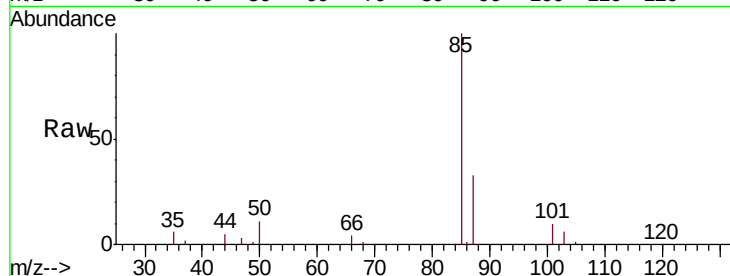
VSTD02568

Tgt Ion: 85 Resp: 89492

Ion Ratio Lower Upper

85 100

87 32.7 22.4 41.6



Abundance Ion 85.00 (84.70 to 85.70): VV009045.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV009045.D (-7) (-)

1.14

100000

80000

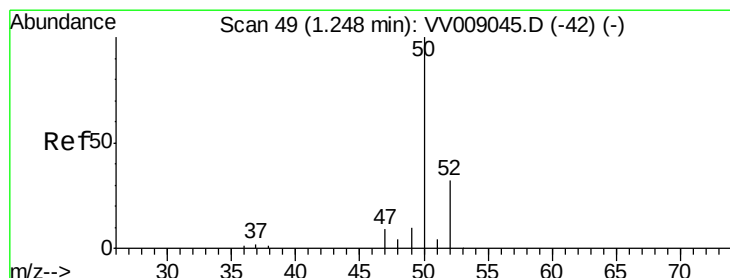
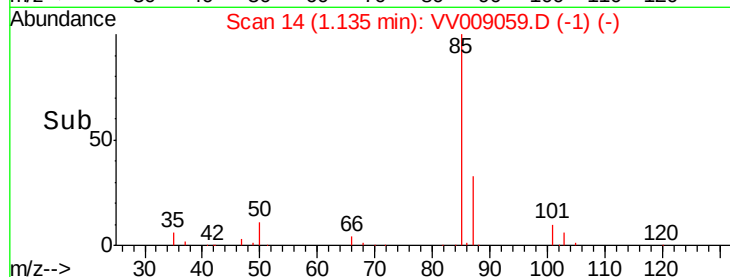
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 20.824 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV009059.D

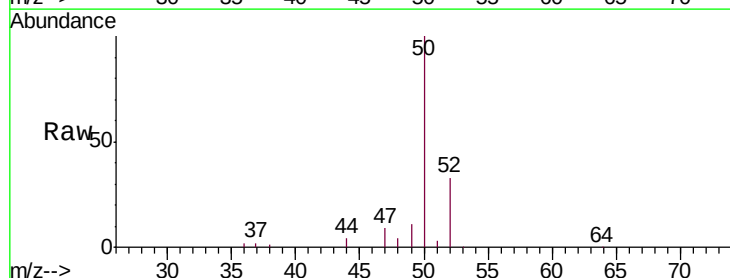
Acq: 19 Dec 2018 20:00

Tgt Ion: 50 Resp: 67304

Ion Ratio Lower Upper

50 100

52 33.5 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VV009045.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV009045.D (-42) (-)

1.25

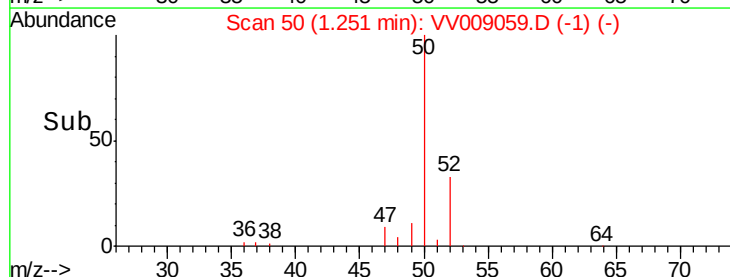
60000

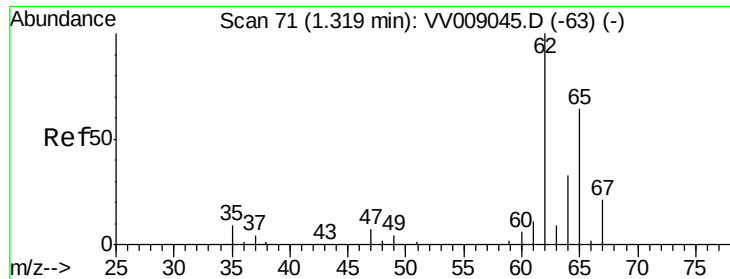
40000

20000

0

Time-->





#5

Vinyl chloride

Concen: 20.917 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

Instrument :

MSVOA_V

ClientSampleId :

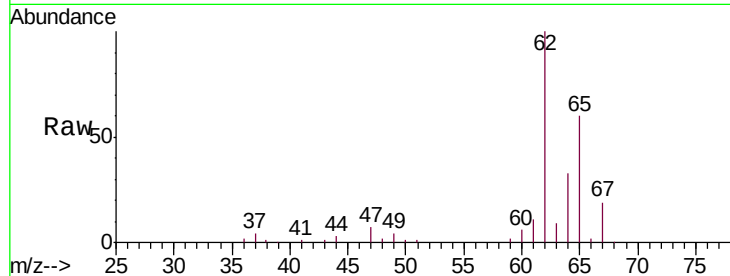
VSTD02568

Tgt Ion: 62 Resp: 75469

Ion Ratio Lower Upper

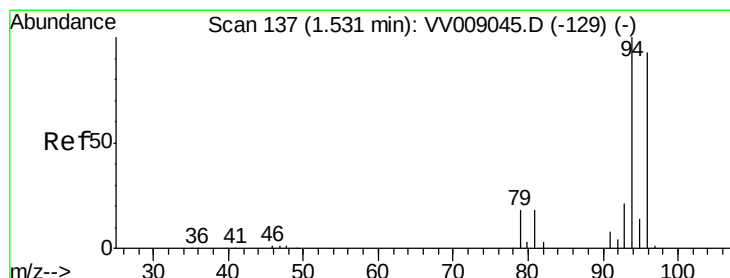
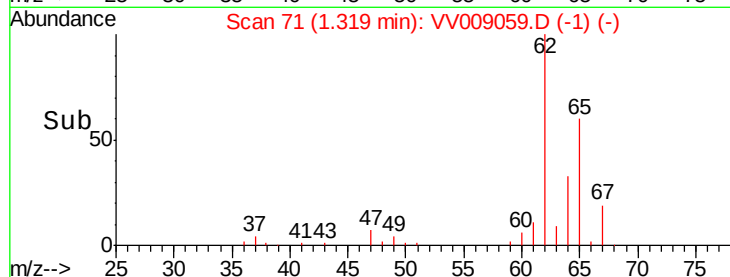
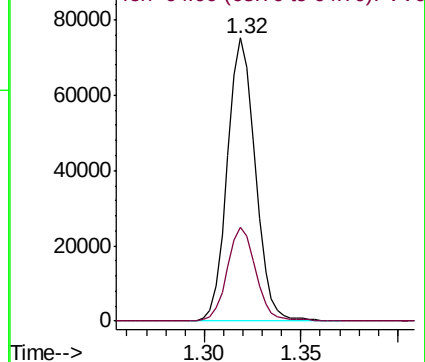
62 100

64 33.3 23.3 43.3



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 30.261 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV009059.D

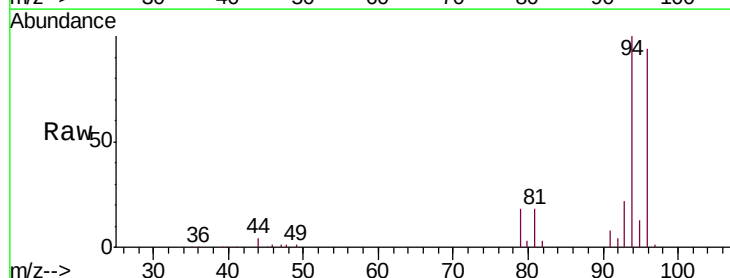
Acq: 19 Dec 2018 20:00

Tgt Ion: 94 Resp: 52494

Ion Ratio Lower Upper

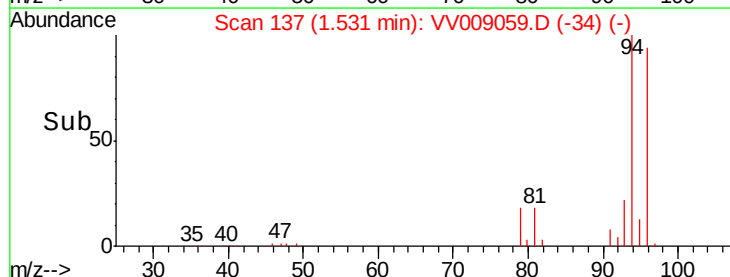
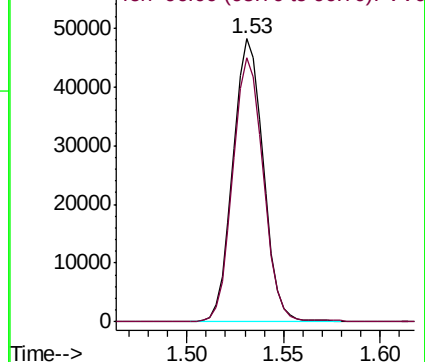
94 100

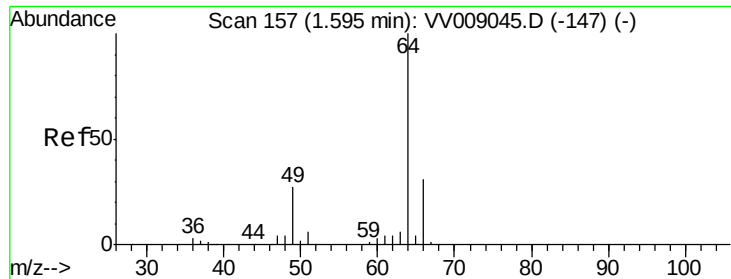
96 93.4 9.5 180.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 31.053 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

Instrument :

MSVOA_V

ClientSampleId :

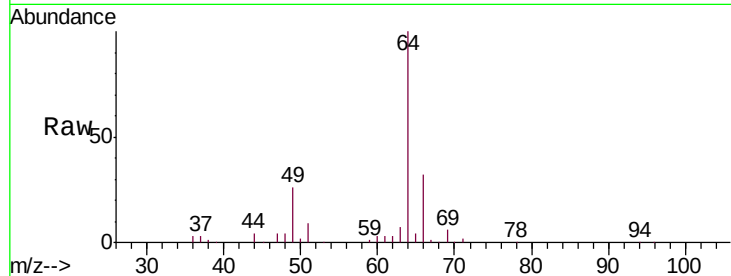
VSTD02568

Tgt Ion: 64 Resp: 62752

Ion Ratio Lower Upper

64 100

66 32.3 22.2 41.2



Abundance Ion 64.00 (63.70 to 64.70): VV009045.D (-147) (-)

Ion 66.00 (65.70 to 66.70): VV009045.D (-147) (-)

1.60

60000

50000

40000

30000

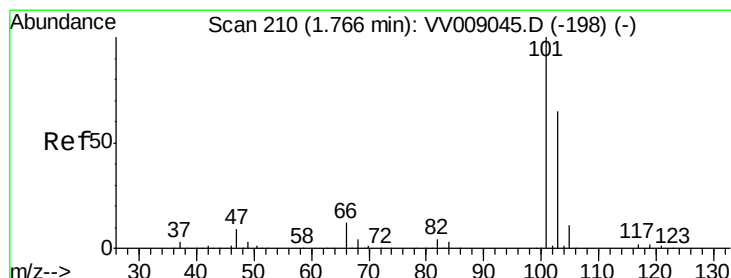
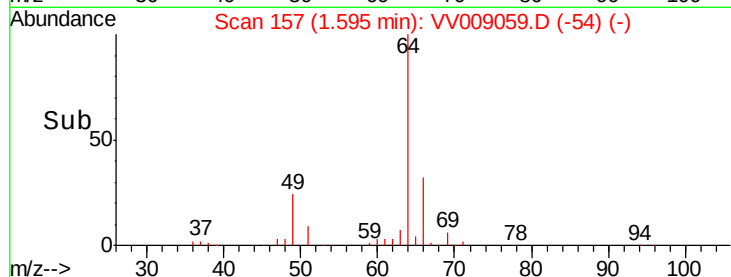
20000

10000

0

1.55 1.60 1.65

Time-->



#9

Trichlorofluoromethane

Concen: 27.396 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV009059.D

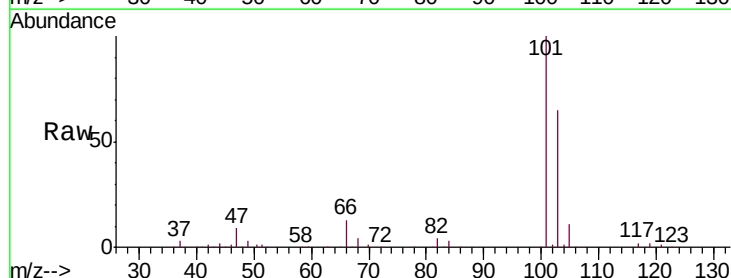
Acq: 19 Dec 2018 20:00

Tgt Ion: 101 Resp: 169306

Ion Ratio Lower Upper

101 100

103 64.3 44.8 83.2



Abundance Ion 101.00 (100.70 to 101.70): VV009045.D (-198) (-)

Ion 103.00 (102.70 to 103.70): VV009045.D (-198) (-)

1.77

150000

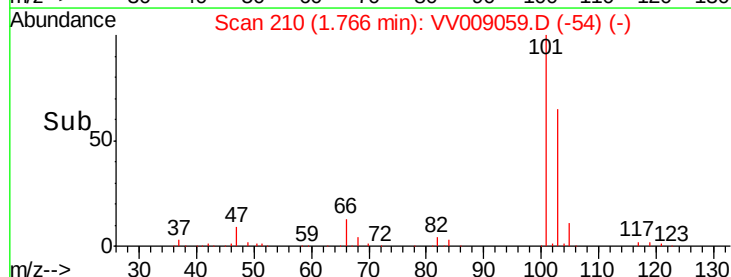
100000

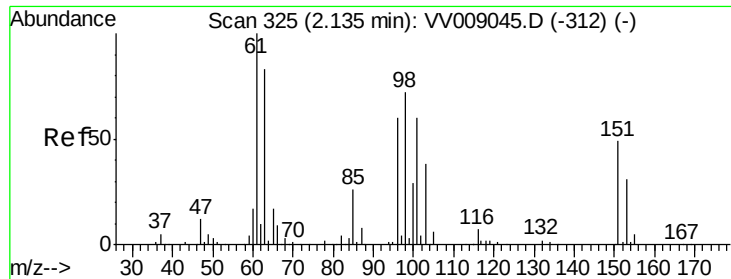
50000

0

1.70 1.75 1.80

Time-->





#11

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

Concen: 22.859 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD02568

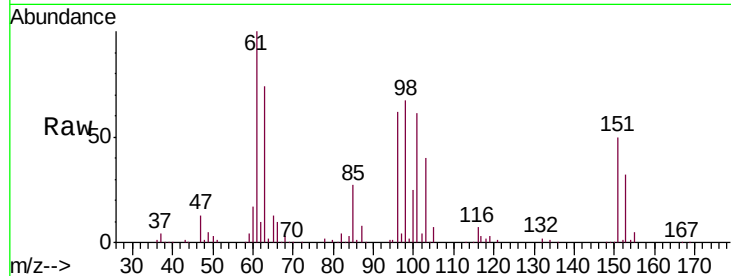
Tgt Ion:101 Resp: 96889

Ion Ratio Lower Upper

101 100

85 43.1 32.5 48.7

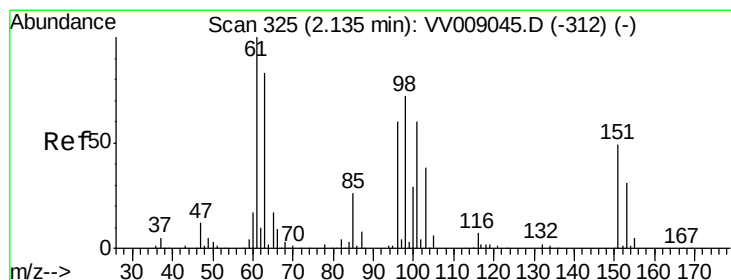
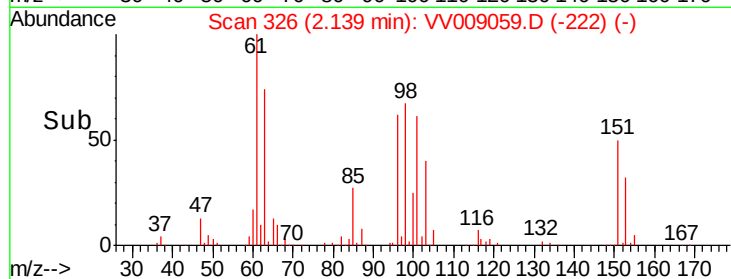
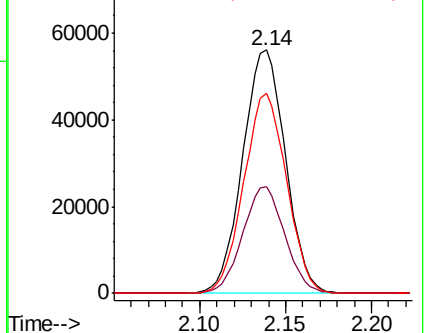
151 82.1 64.2 96.4



Abundance Ion 101.00 (100.70 to 101.70): VV009045.D (-312) (-)

Ion 85.00 (84.70 to 85.70): VV009045.D (-312) (-)

Ion 151.00 (150.70 to 151.70): VV009045.D (-312) (-)



#12

1,1-Dichloroethene

Concen: 22.323 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

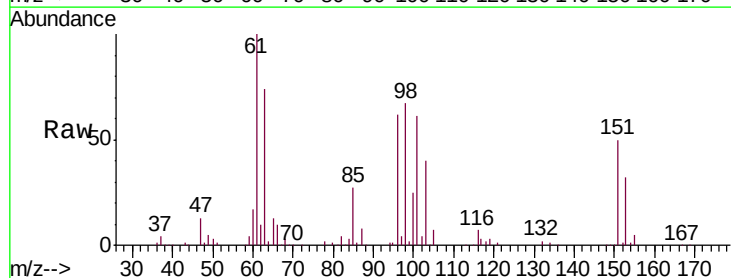
Tgt Ion: 96 Resp: 82565

Ion Ratio Lower Upper

96 100

61 161.3 114.0 211.6

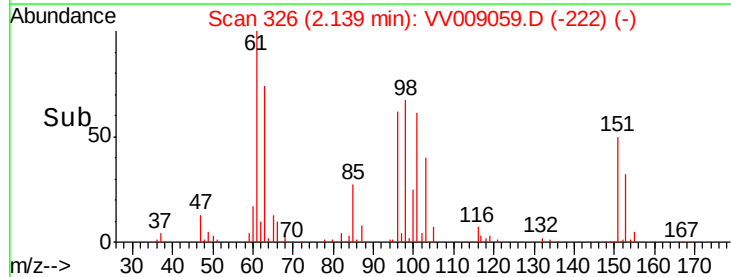
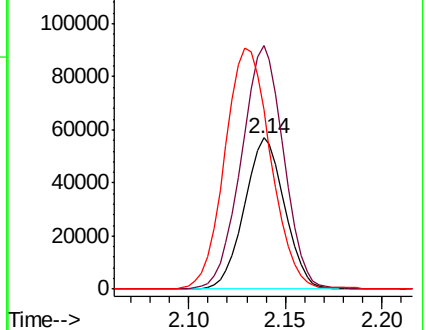
63 119.0 82.4 153.0

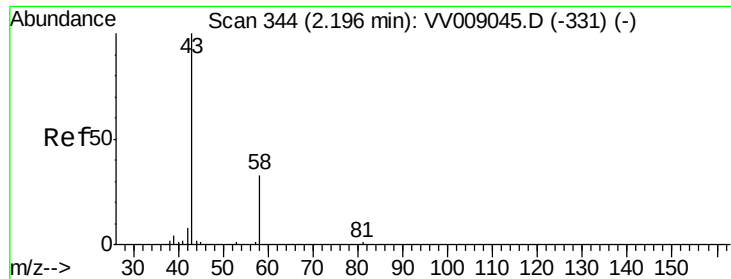


Abundance Ion 96.00 (95.70 to 96.70): VV009045.D (-312) (-)

Ion 61.00 (60.70 to 61.70): VV009045.D (-312) (-)

Ion 63.00 (62.70 to 63.70): VV009045.D (-312) (-)





#13

Acetone

Concen: 39.493 ug/L

RT: 2.19 min Scan# 343

Delta R.T. -0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

Instrument :

MSVOA_V

ClientSampleId :

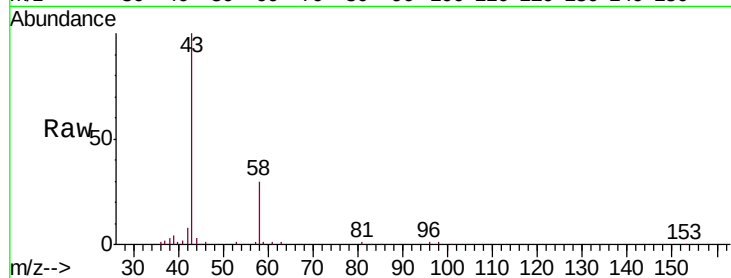
VSTD02568

Tgt Ion: 43 Resp: 62900

Ion Ratio Lower Upper

43 100

58 30.8 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VV009045.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV009045.D (-331) (-)

2.19

30000

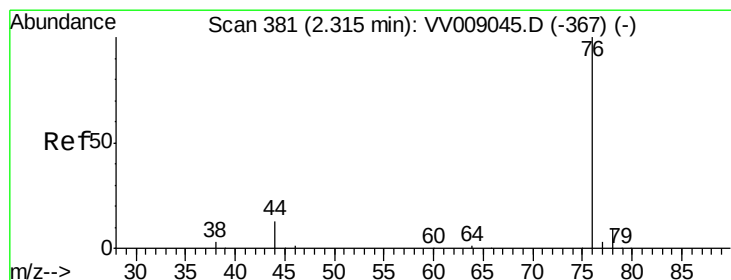
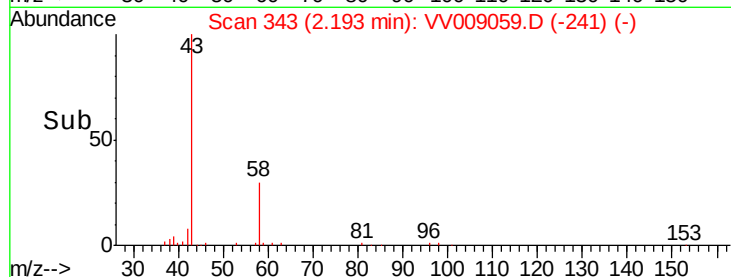
20000

10000

0

Time-->

2.15 2.20 2.25 2.30



#14

Carbon disulfide

Concen: 21.081 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV009059.D

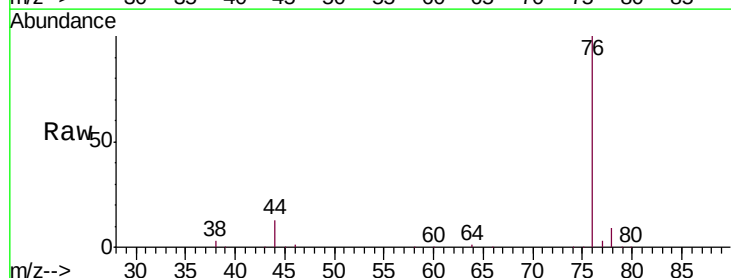
Acq: 19 Dec 2018 20:00

Tgt Ion: 76 Resp: 250368

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV009045.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VV009045.D (-367) (-)

2.32

200000

150000

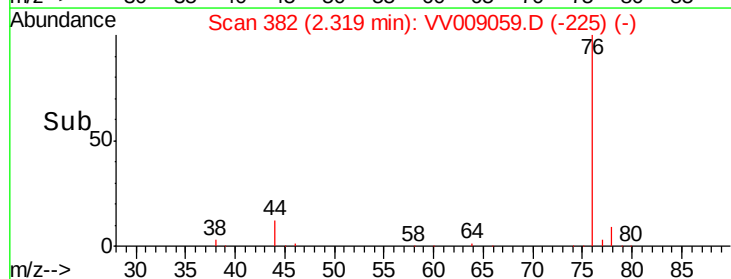
100000

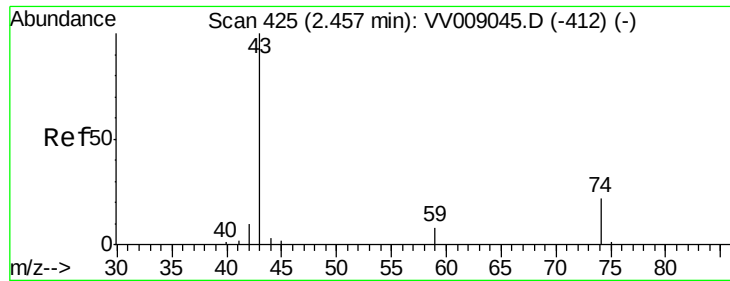
50000

0

Time-->

2.25 2.30 2.35 2.40

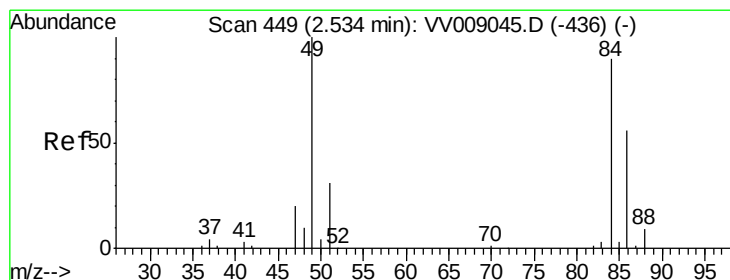
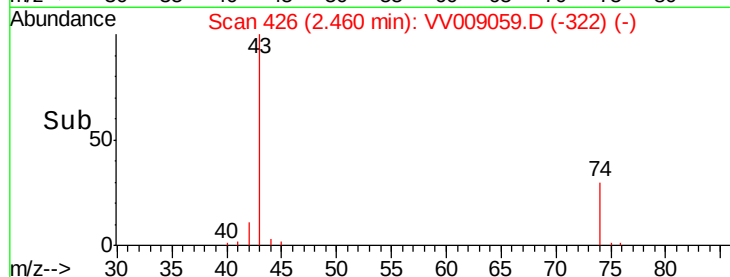
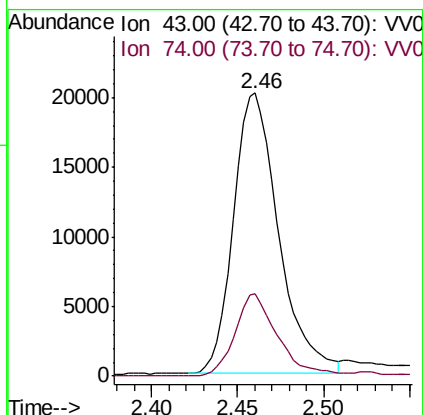
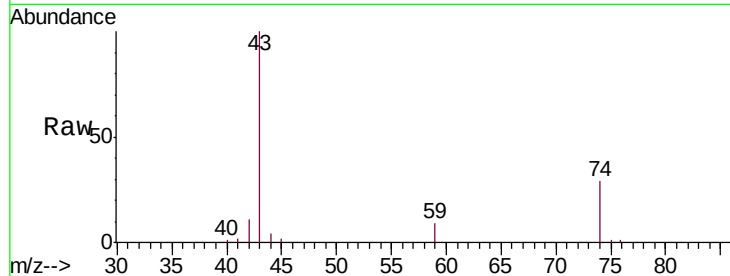




#15
Methyl Acetate
Concen: 18.224 ug/L
RT: 2.46 min Scan# 426
Delta R.T. 0.00 min
Lab File: VV009059.D
Acq: 19 Dec 2018 20:00

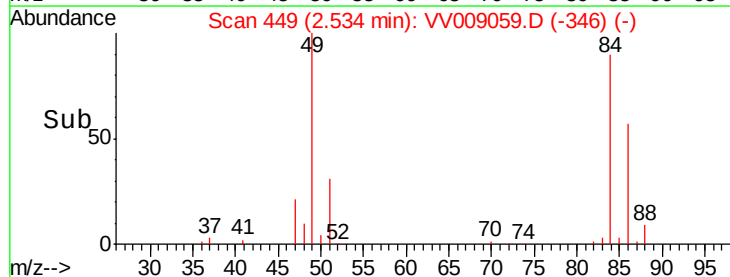
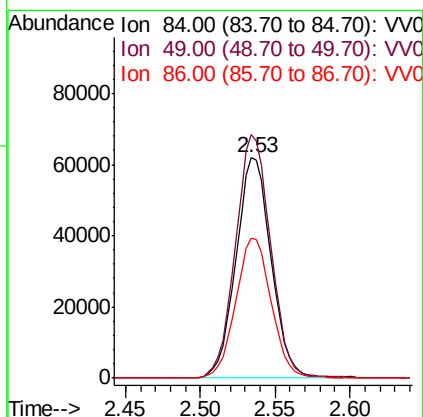
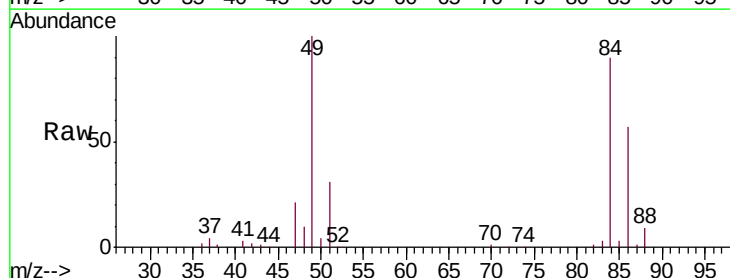
Instrument :
MSVOA_V
ClientSampleId :
VSTD02568

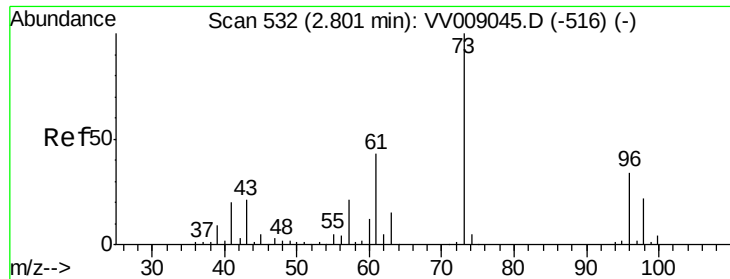
Tgt Ion: 43 Resp: 36805
Ion Ratio Lower Upper
43 100
74 27.7 19.7 29.5



#16
Methylene chloride
Concen: 21.023 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV009059.D
Acq: 19 Dec 2018 20:00

Tgt Ion: 84 Resp: 101575
Ion Ratio Lower Upper
84 100
49 110.7 80.5 149.5
86 63.5 45.5 84.5

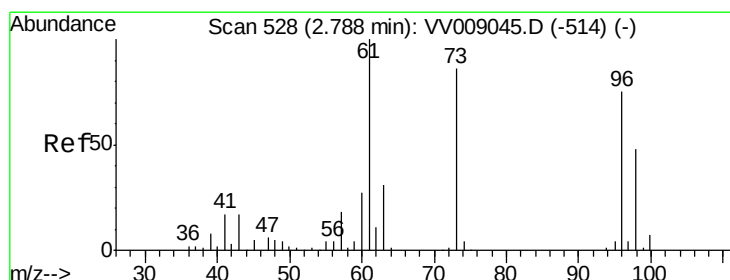
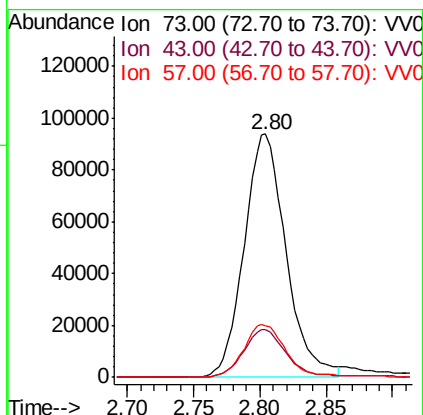
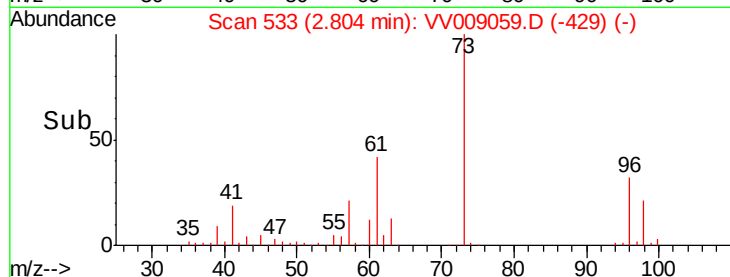
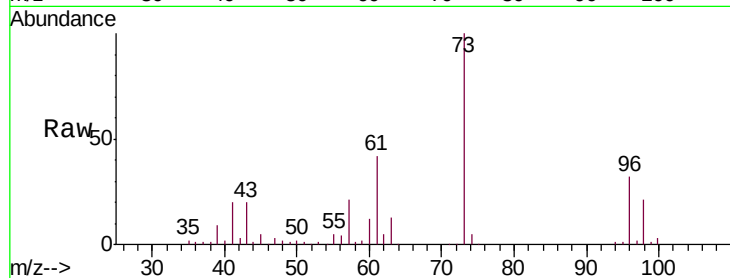




#17
Methyl tert-butyl Ether
Concen: 24.644 ug/L
RT: 2.80 min Scan# 533
Delta R.T. 0.00 min
Lab File: VV009059.D
Acq: 19 Dec 2018 20:00

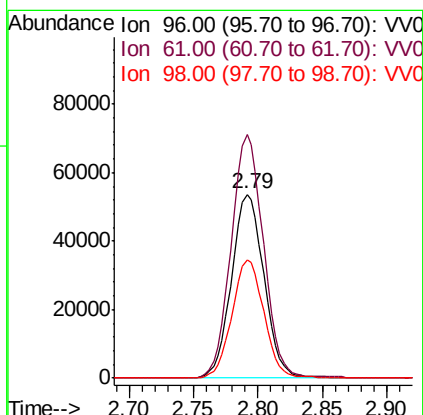
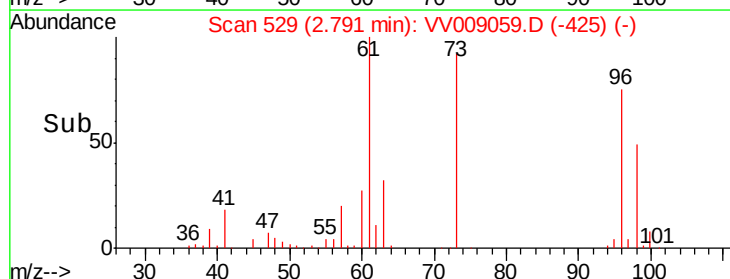
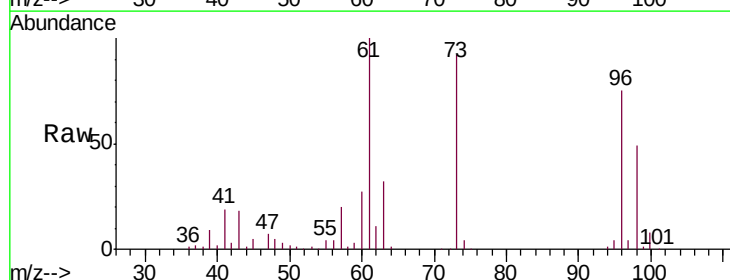
Instrument :
MSVOA_V
ClientSampleId :
VSTD02568

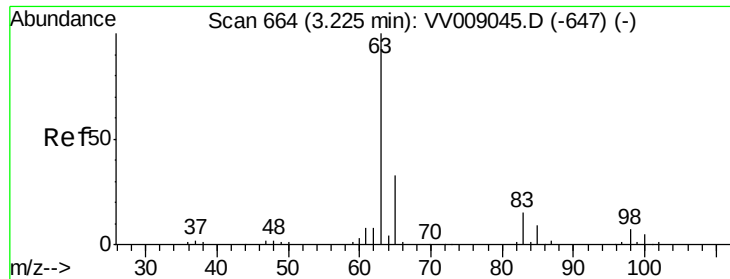
Tgt Ion: 73 Resp: 207081
Ion Ratio Lower Upper
73 100
43 19.9 14.9 22.3
57 21.9 16.0 24.0



#18
trans-1,2-Dichloroethene
Concen: 23.607 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.00 min
Lab File: VV009059.D
Acq: 19 Dec 2018 20:00

Tgt Ion: 96 Resp: 94350
Ion Ratio Lower Upper
96 100
61 132.6 94.6 175.8
98 64.3 45.3 84.1

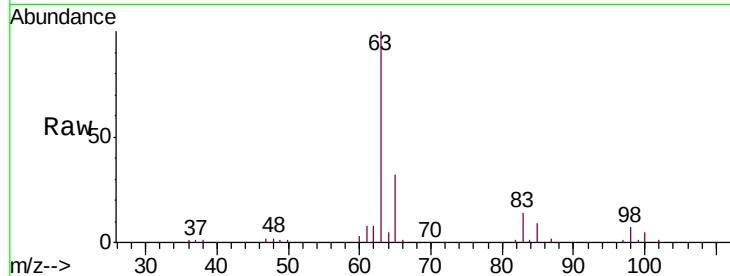




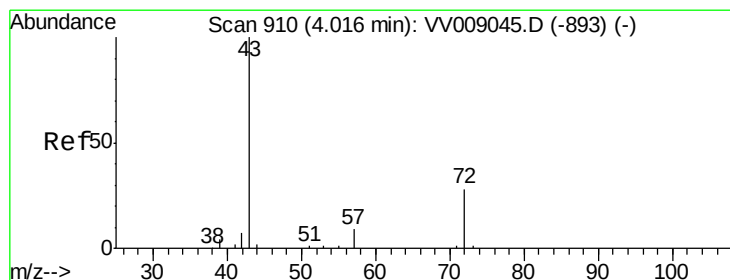
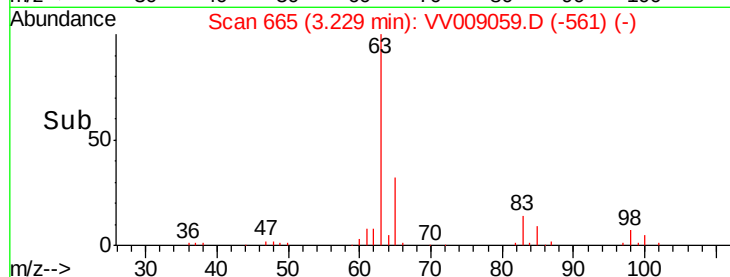
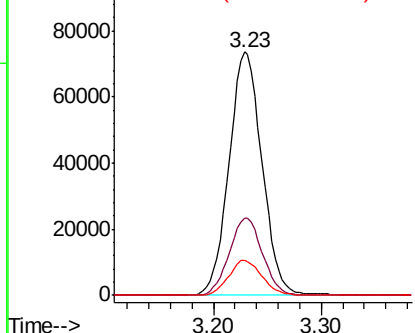
#19
 1,1-Dichloroethane
 Concen: 24.248 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV009059.D
 Acq: 19 Dec 2018 20:00

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02568

Tgt Ion: 63 Resp: 157101
 Ion Ratio Lower Upper
 63 100
 65 31.6 22.7 42.1
 83 14.3 10.2 19.0

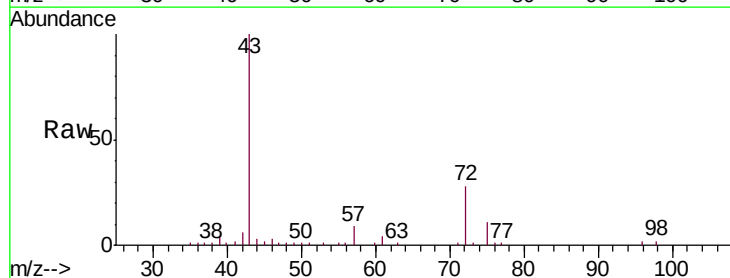


Abundance Ion 63.00 (62.70 to 63.70): VV0
 Ion 65.00 (64.70 to 65.70): VV0
 Ion 83.00 (82.70 to 83.70): VV0

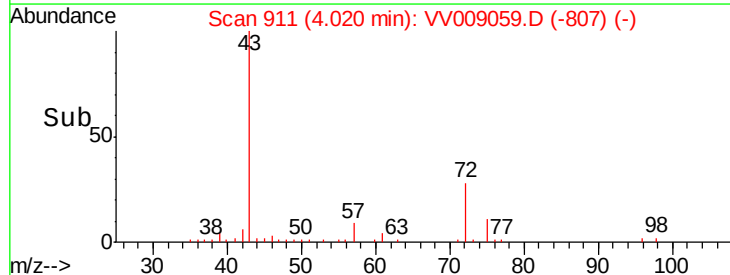
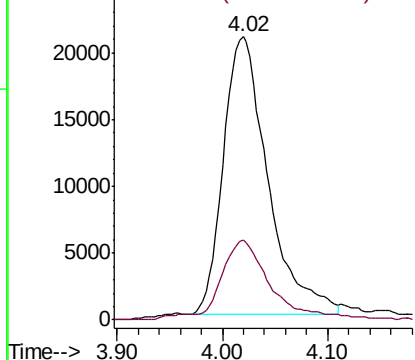


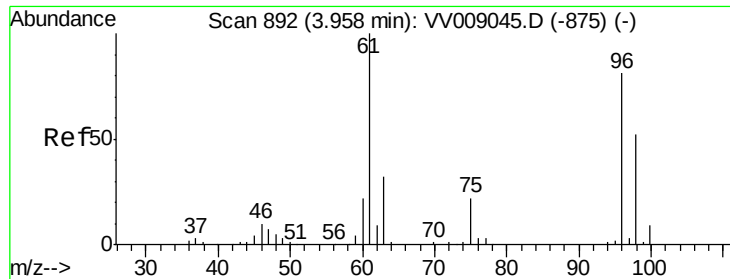
#21
 2-Butanone
 Concen: 40.976 ug/L
 RT: 4.02 min Scan# 911
 Delta R.T. 0.00 min
 Lab File: VV009059.D
 Acq: 19 Dec 2018 20:00

Tgt Ion: 43 Resp: 61167
 Ion Ratio Lower Upper
 43 100
 72 26.3 13.7 41.1



Abundance Ion 43.00 (42.70 to 43.70): VV0
 Ion 72.00 (71.70 to 72.70): VV0



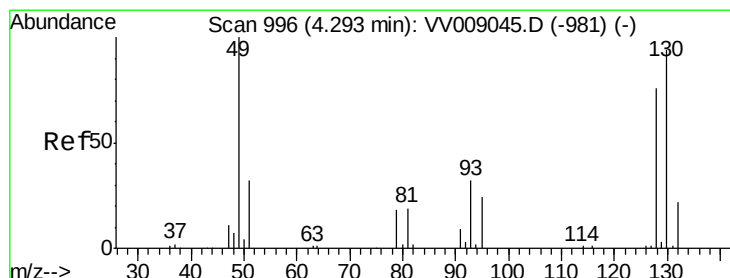
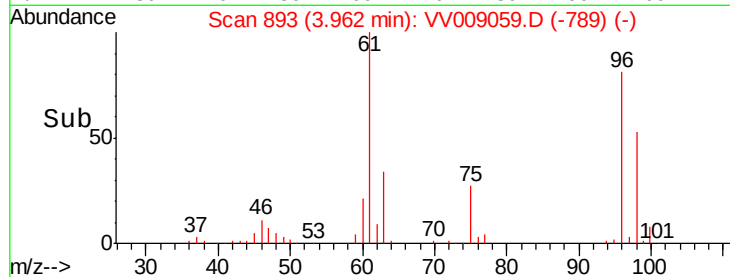
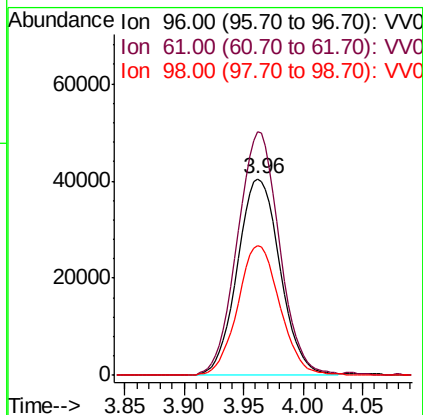
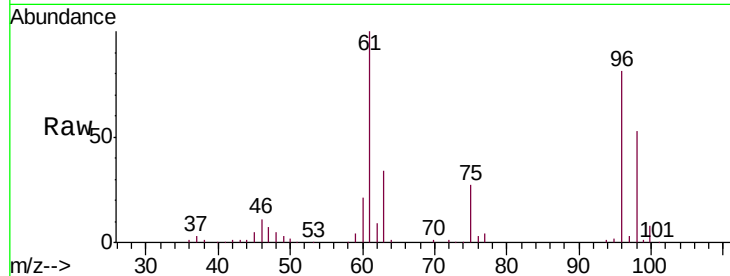


#22

cis-1,2-Dichloroethene
 Concen: 24.183 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV009059.D
 Acq: 19 Dec 2018 20:00

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02568

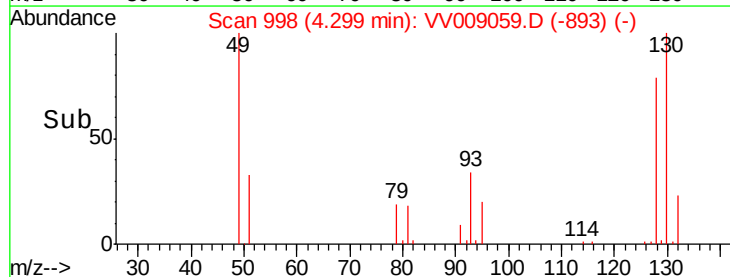
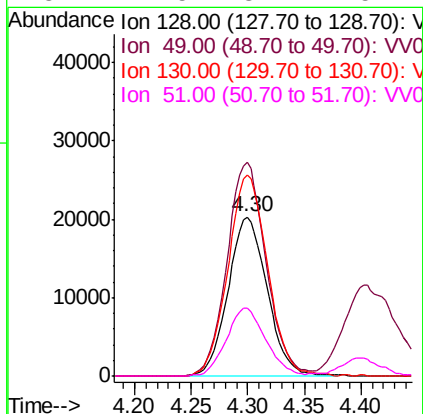
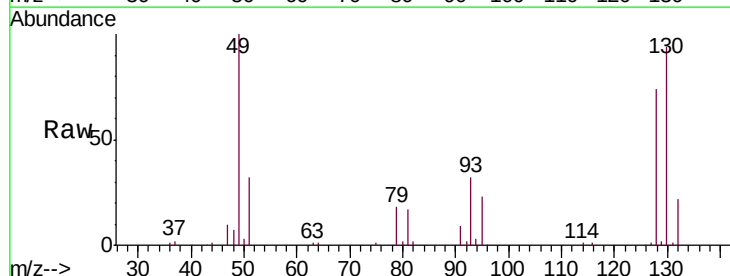
Tgt Ion: 96 Resp: 100776
 Ion Ratio Lower Upper
 96 100
 61 123.9 86.2 160.0
 98 66.2 45.6 84.6

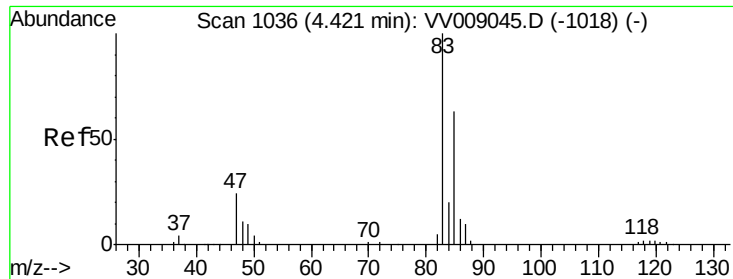


#23

Bromochloromethane
 Concen: 24.856 ug/L
 RT: 4.30 min Scan# 998
 Delta R.T. 0.01 min
 Lab File: VV009059.D
 Acq: 19 Dec 2018 20:00

Tgt Ion: 128 Resp: 48819
 Ion Ratio Lower Upper
 128 100
 49 134.3 93.8 174.2
 130 126.7 90.4 168.0
 51 42.5 34.2 51.4

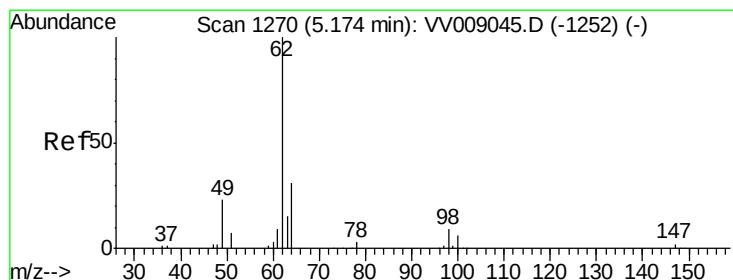
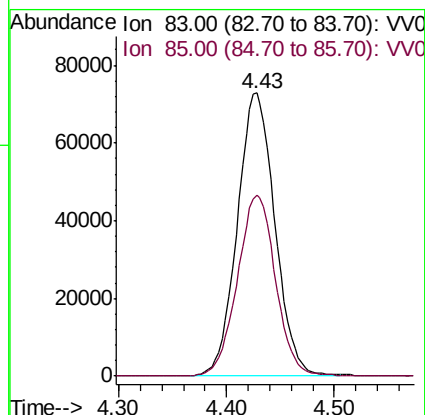
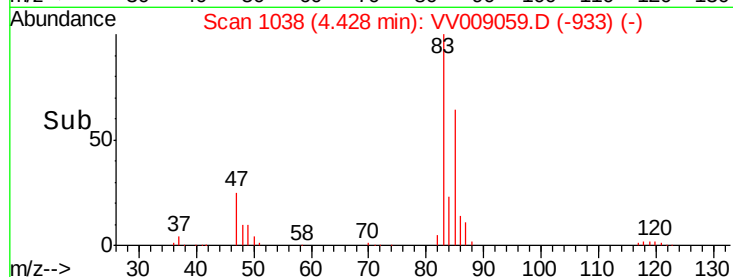
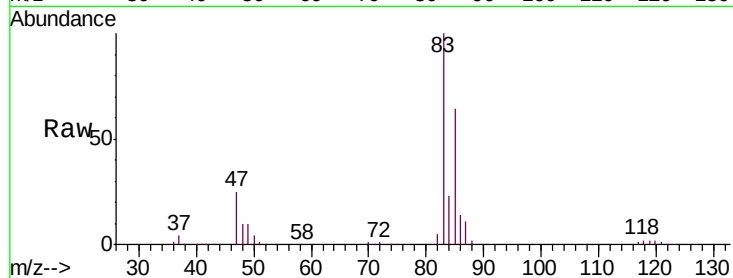




#25
Chloroform
Concen: 25.389 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.01 min
Lab File: VV009059.D
Acq: 19 Dec 2018 20:00

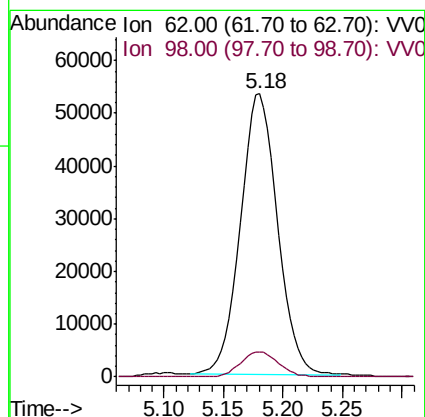
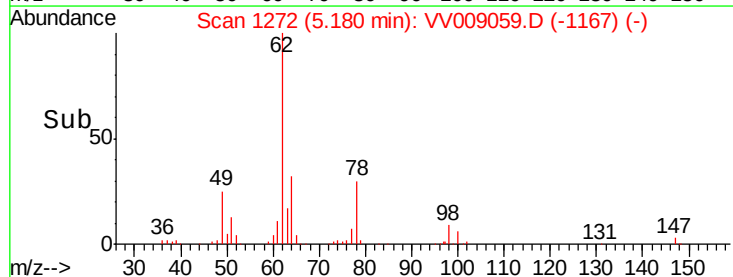
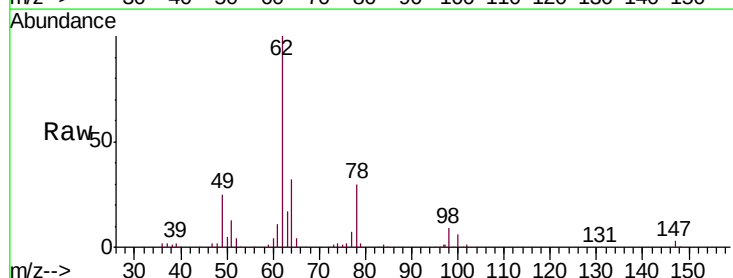
Instrument :
MSVOA_V
ClientSampleId :
VSTD02568

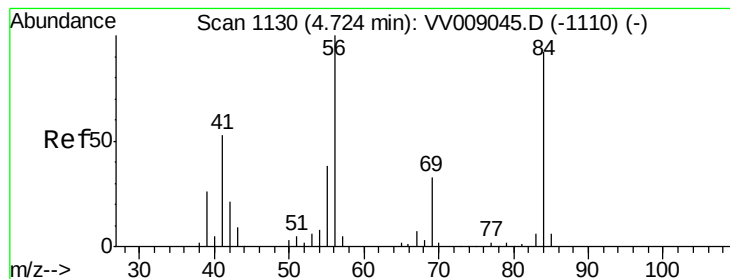
Tgt Ion: 83 Resp: 176538
Ion Ratio Lower Upper
83 100
85 65.1 45.6 84.8



#27
1,2-Dichloroethane
Concen: 24.436 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VV009059.D
Acq: 19 Dec 2018 20:00

Tgt Ion: 62 Resp: 115743
Ion Ratio Lower Upper
62 100
98 8.7 7.4 11.0





#30

Cyclohexane

Concen: 22.261 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD02568

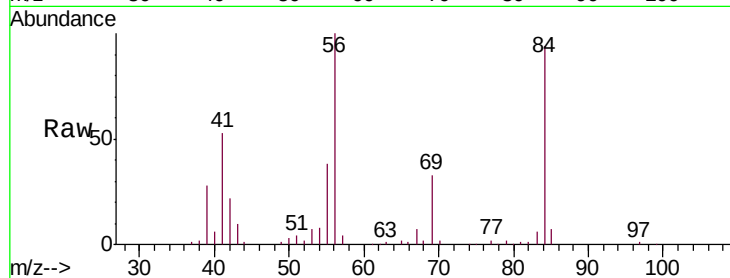
Tgt Ion: 56 Resp: 141091

Ion Ratio Lower Upper

56 100

69 33.0 25.8 38.8

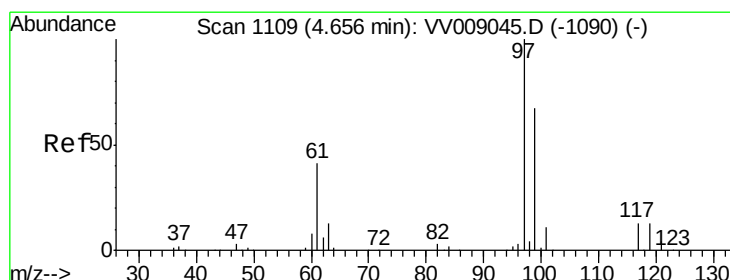
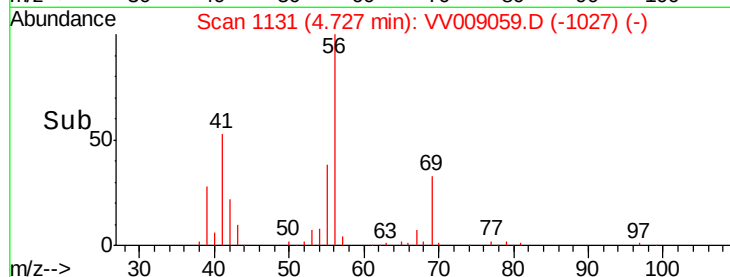
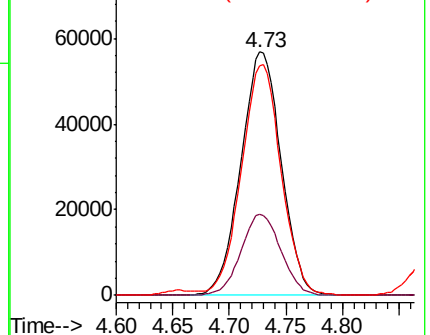
84 93.1 73.0 109.6



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: 24.307 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

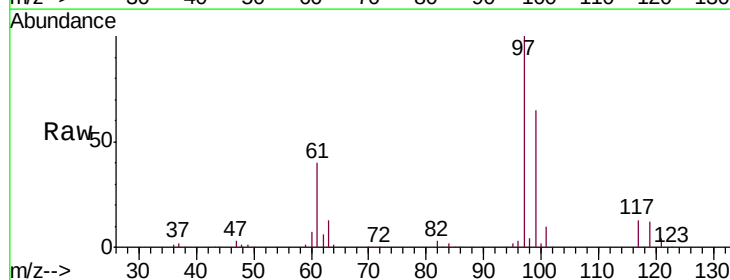
Tgt Ion: 97 Resp: 157741

Ion Ratio Lower Upper

97 100

99 64.1 51.9 77.9

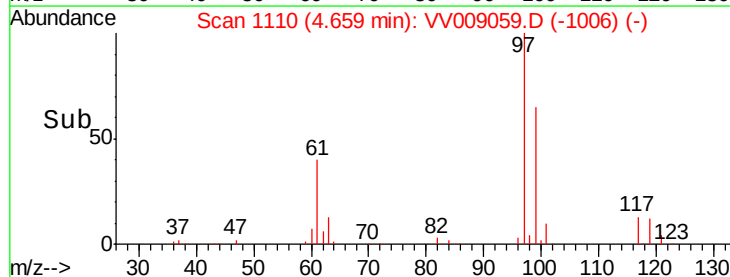
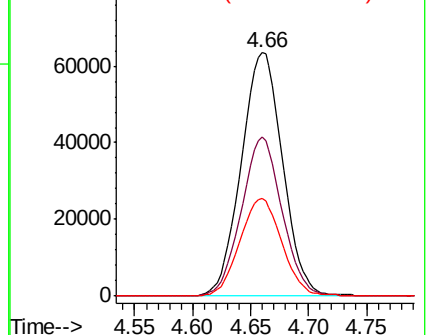
61 40.7 33.1 49.7

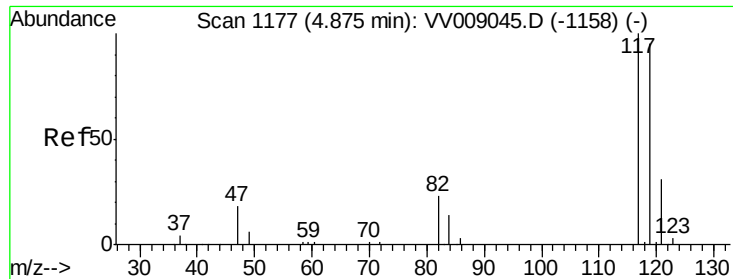


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 61.00 (60.70 to 61.70): VV0





#32

Carbon tetrachloride

Concen: 24.043 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

Instrument :

MSVOA_V

ClientSampleId :

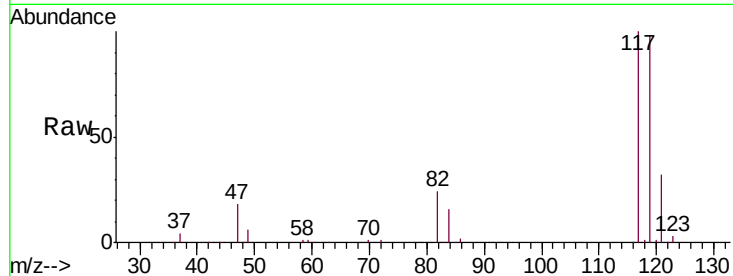
VSTD02568

Tgt Ion:117 Resp: 142448

Ion Ratio Lower Upper

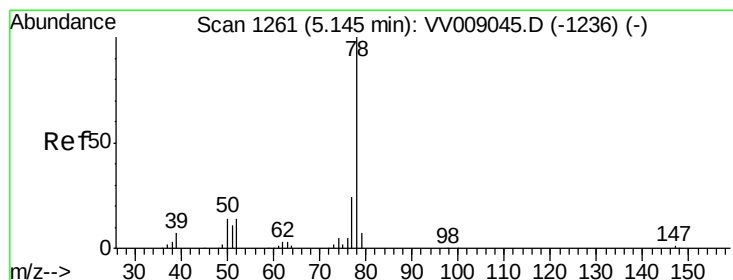
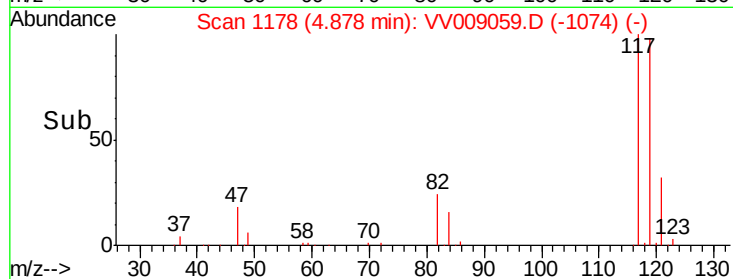
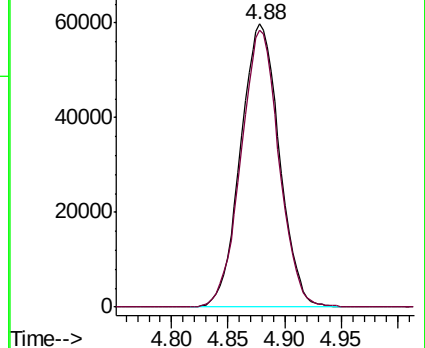
117 100

119 95.9 77.1 115.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 23.773 ug/L

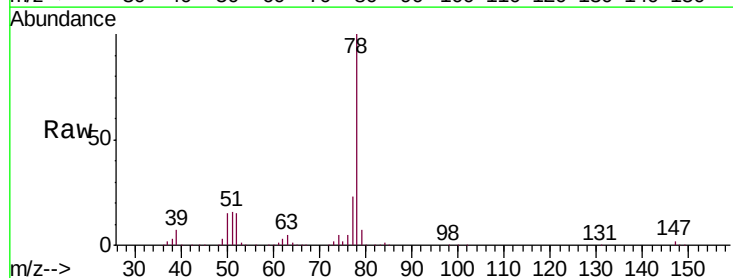
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

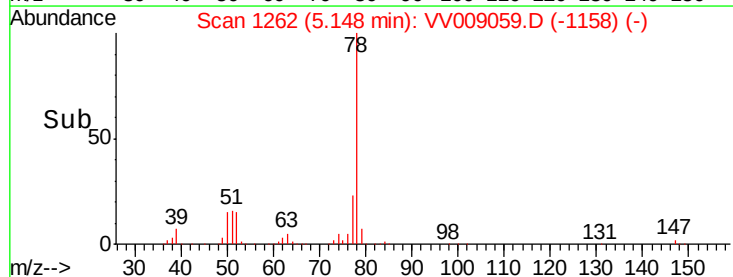
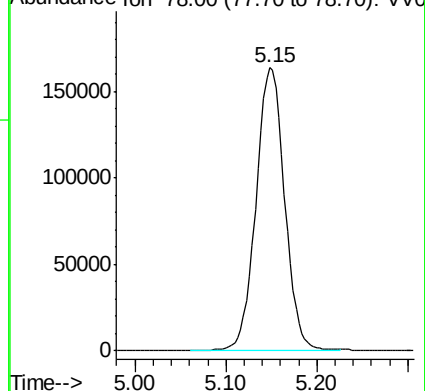
Lab File: VV009059.D

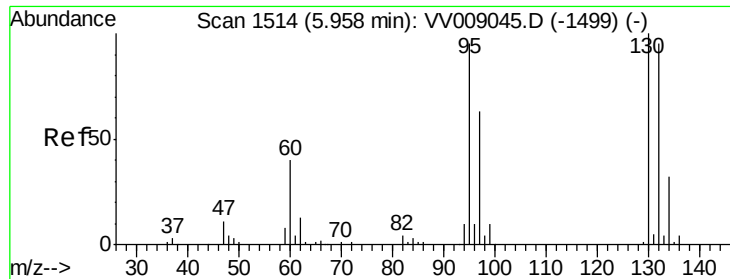
Acq: 19 Dec 2018 20:00

Tgt Ion: 78 Resp: 358506



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 24.034 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD02568

Tgt Ion: 95 Resp: 109268

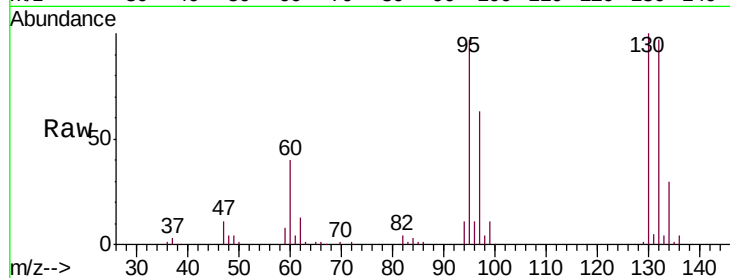
Ion Ratio Lower Upper

95 100

97 65.4 45.3 84.1

132 100.9 70.0 130.0

130 103.8 73.4 136.4

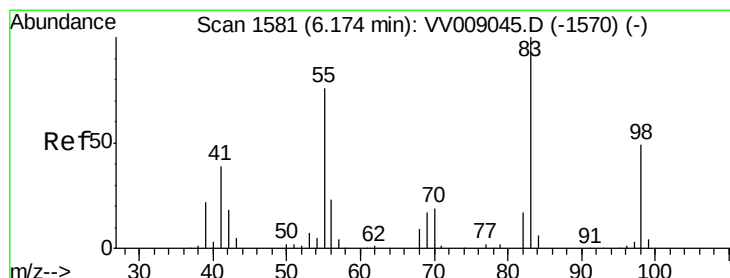
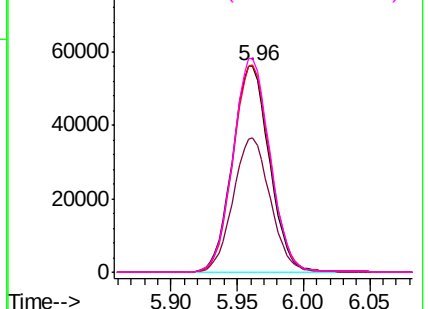
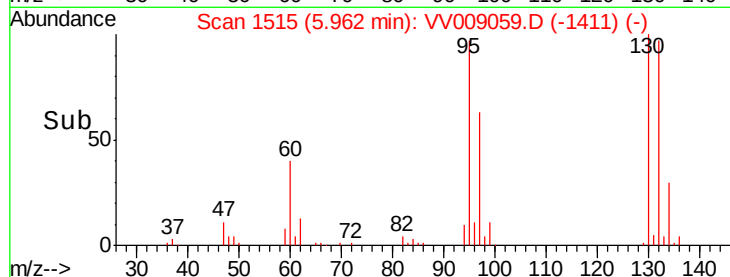


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 23.534 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

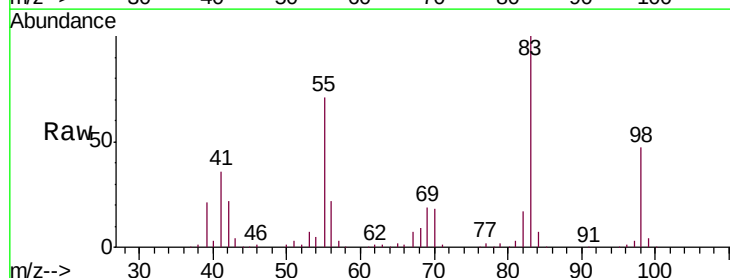
Tgt Ion: 83 Resp: 170647

Ion Ratio Lower Upper

83 100

55 70.0 58.2 87.2

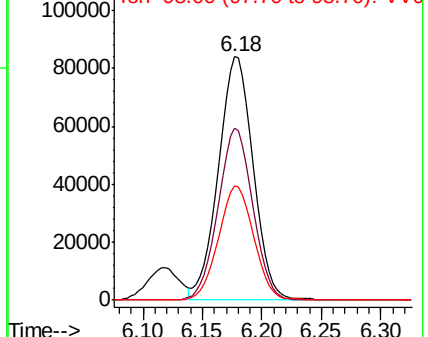
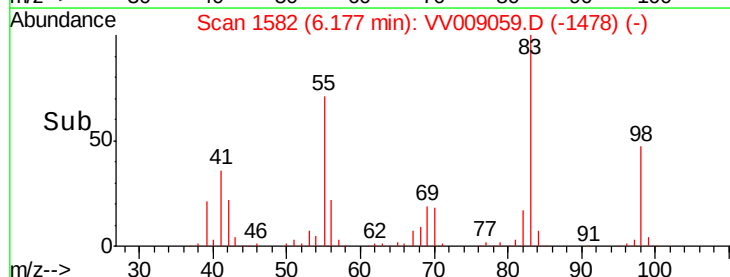
98 47.7 37.8 56.8

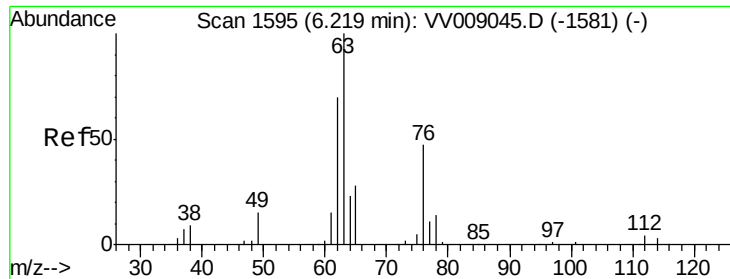


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

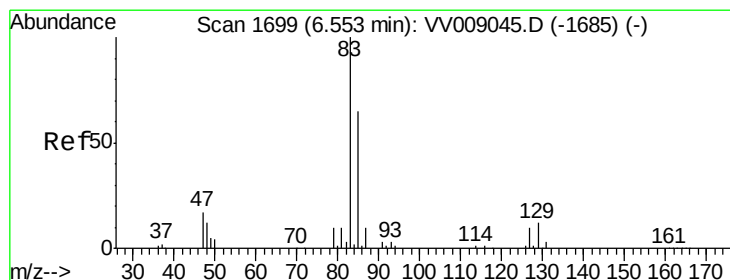
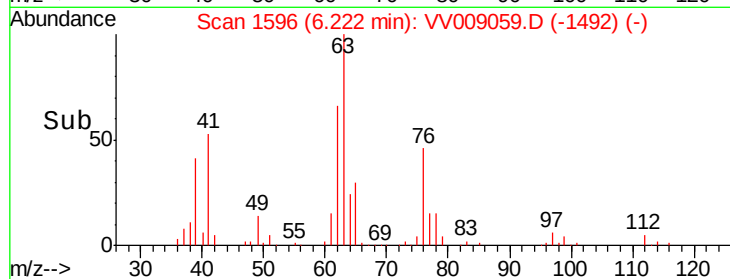
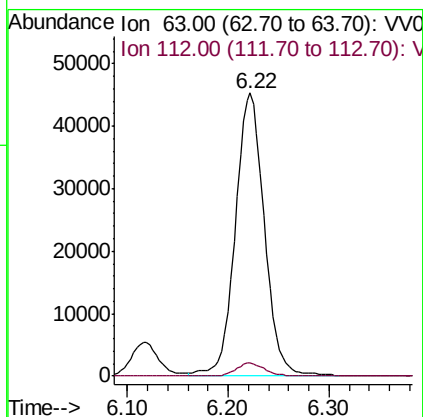
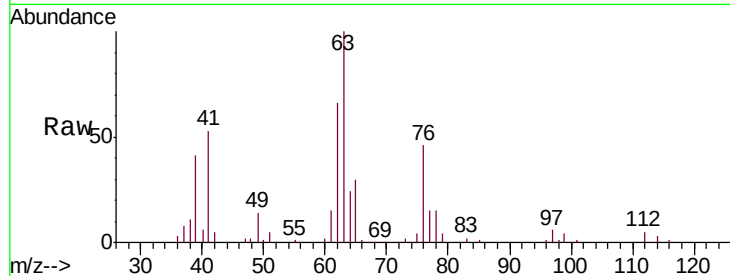




#40
 1,2-Dichloropropane
 Concen: 24.861 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VV009059.D
 Acq: 19 Dec 2018 20:00

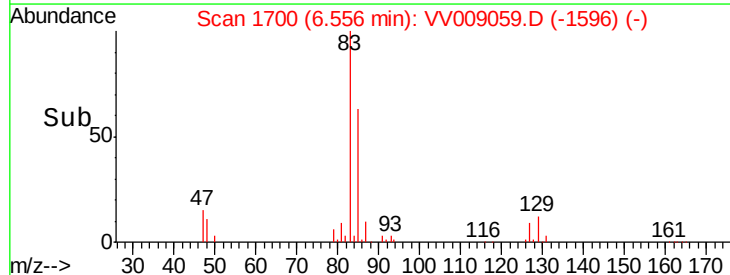
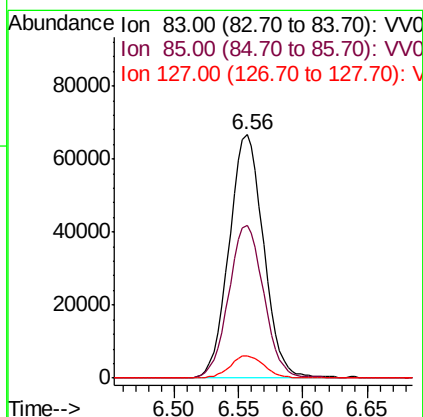
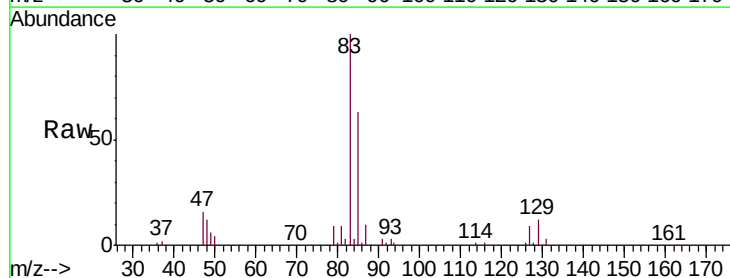
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02568

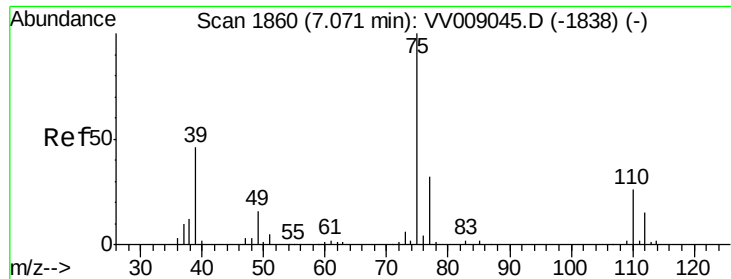
Tgt Ion: 63 Resp: 89980
 Ion Ratio Lower Upper
 63 100
 112 4.5 3.8 5.8



#41
 Bromodichloromethane
 Concen: 25.942 ug/L
 RT: 6.56 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VV009059.D
 Acq: 19 Dec 2018 20:00

Tgt Ion: 83 Resp: 123754
 Ion Ratio Lower Upper
 83 100
 85 62.5 45.3 84.1
 127 9.0 7.2 10.8

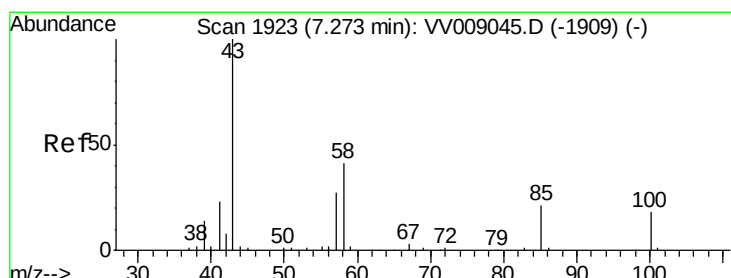
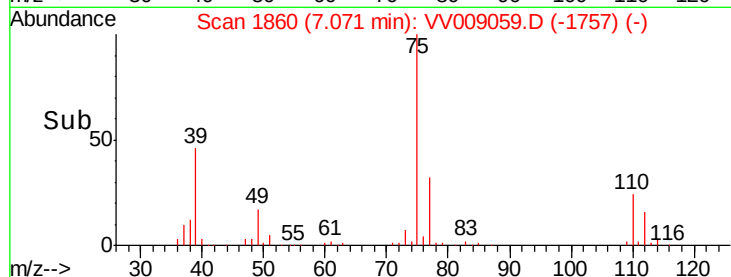
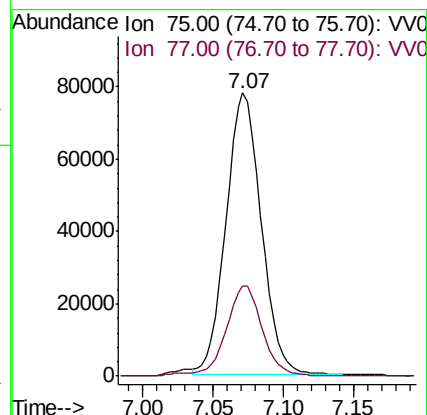
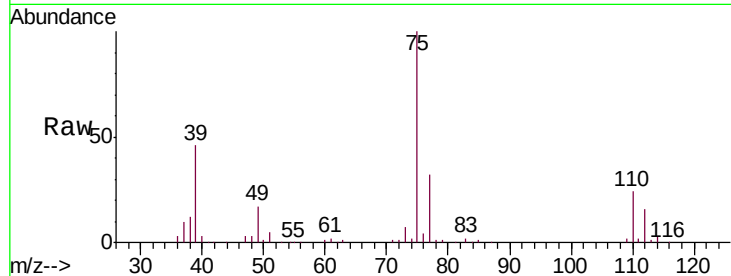




#42
 cis-1,3-Dichloropropene
 Concen: 25.580 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV009059.D
 Acq: 19 Dec 2018 20:00

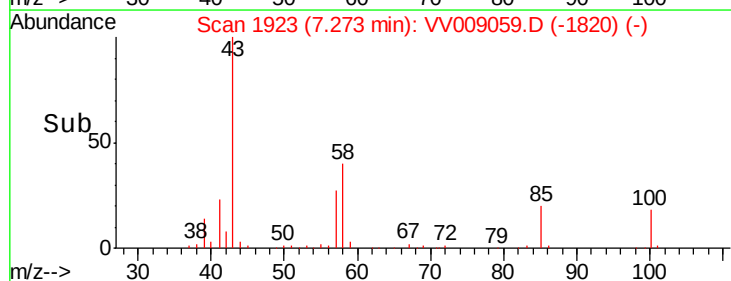
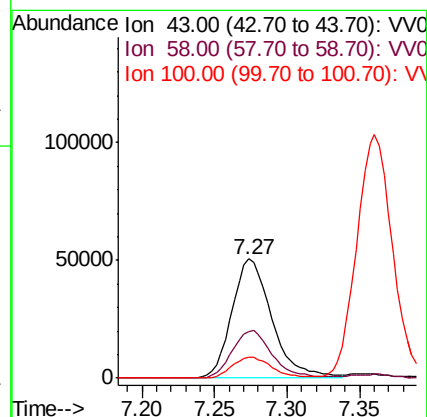
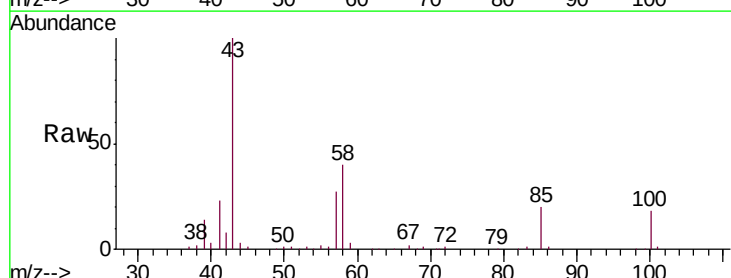
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02568

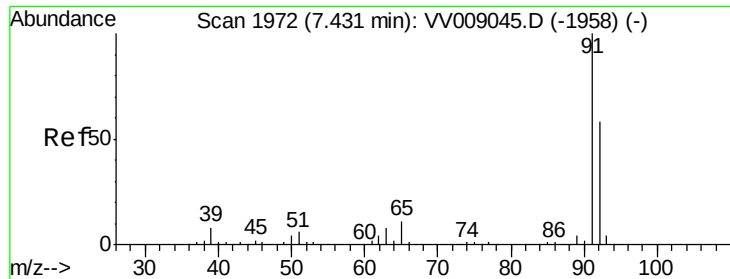
Tgt Ion: 75 Resp: 135544
 Ion Ratio Lower Upper
 75 100
 77 32.1 21.3 39.6



#43
 4-Methyl-2-pentanone
 Concen: 39.758 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VV009059.D
 Acq: 19 Dec 2018 20:00

Tgt Ion: 43 Resp: 97260
 Ion Ratio Lower Upper
 43 100
 58 39.8 32.2 48.4
 100 17.7 13.8 20.8





#44

Toluene

Concen: 24.409 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

Instrument :

MSVOA_V

ClientSampleId :

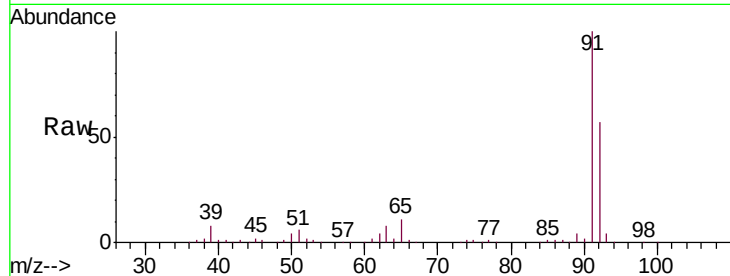
VSTD02568

Tgt Ion: 91 Resp: 386033

Ion Ratio Lower Upper

91 100

92 57.5 41.7 77.5



Abundance Ion 91.00 (90.70 to 91.70): VV009045.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV009045.D (-1958) (-)

7.43

250000

200000

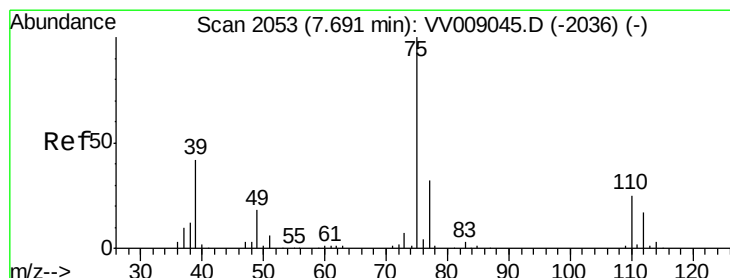
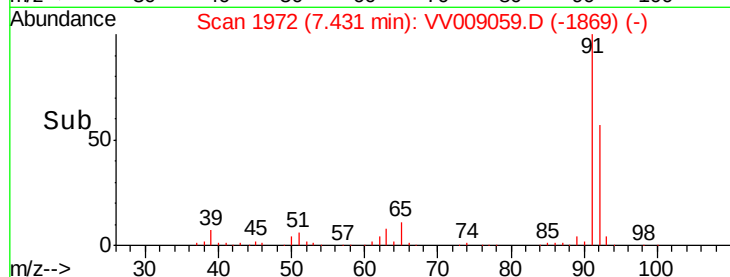
150000

100000

50000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 25.703 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV009059.D

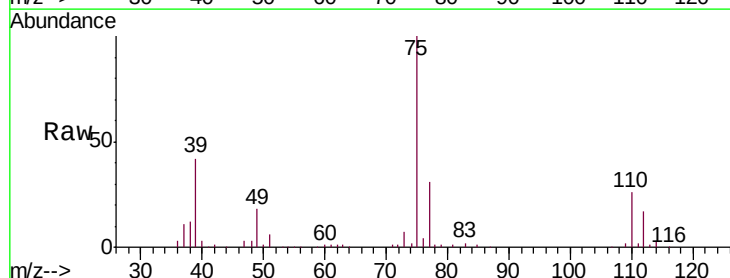
Acq: 19 Dec 2018 20:00

Tgt Ion: 75 Resp: 118726

Ion Ratio Lower Upper

75 100

77 31.4 23.6 43.8



Abundance Ion 75.00 (74.70 to 75.70): VV009045.D (-2036) (-)

Ion 77.00 (76.70 to 77.70): VV009045.D (-2036) (-)

7.69

80000

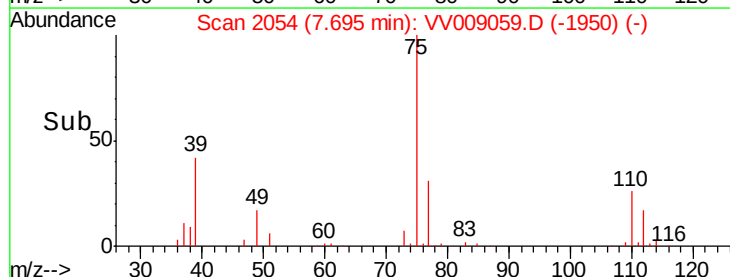
60000

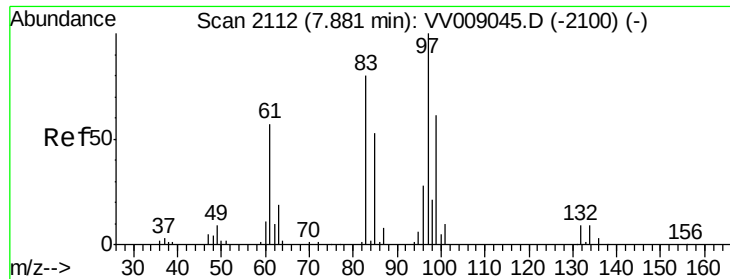
40000

20000

0

Time-->

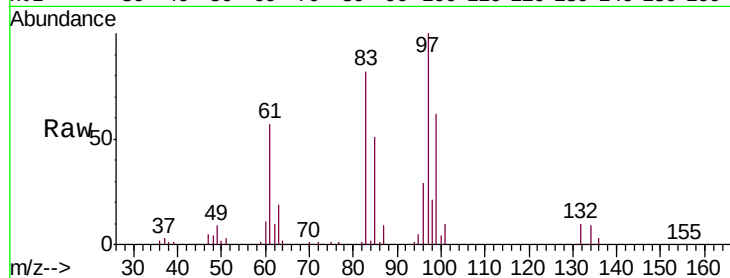




#46
 1,1,2-Trichloroethane
 Concen: 24.421 ug/L
 RT: 7.88 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VV009059.D
 Acq: 19 Dec 2018 20:00

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02568

Tgt Ion:	97	Resp:	73647
Ion	Ratio	Lower	Upper
97	100		
83	81.9	56.6	105.2
85	51.2	36.6	68.0
99	62.4	43.2	80.2

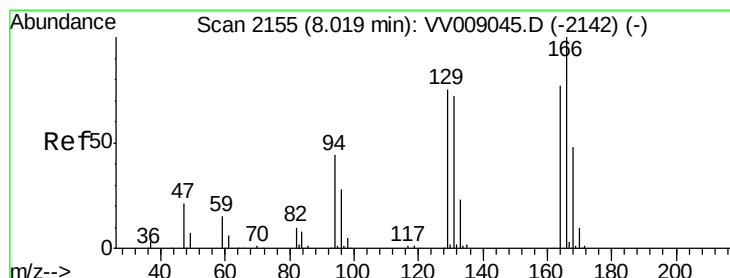
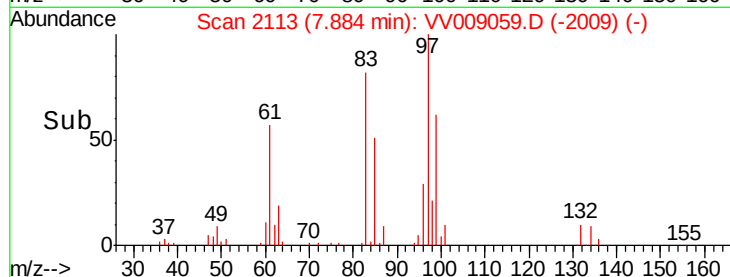
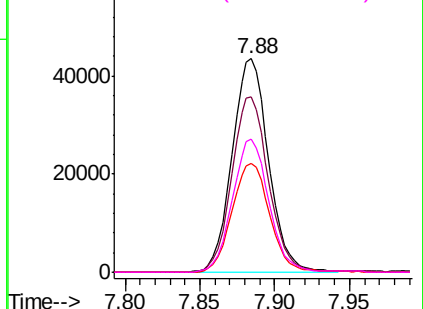


Abundance Ion 97.00 (96.70 to 97.70): VV009045.D (-2100) (-)

Ion 83.00 (82.70 to 83.70): VV009045.D (-2100) (-)

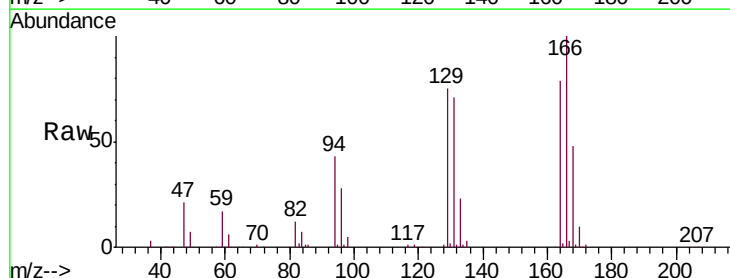
Ion 85.00 (84.70 to 85.70): VV009045.D (-2100) (-)

Ion 99.00 (98.70 to 99.70): VV009045.D (-2100) (-)



#47
 Tetrachloroethene
 Concen: 23.065 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VV009059.D
 Acq: 19 Dec 2018 20:00

Tgt Ion:	164	Resp:	85281
Ion	Ratio	Lower	Upper
164	100		
129	95.7	64.6	120.0
131	90.4	64.5	119.7
166	126.8	88.7	164.7

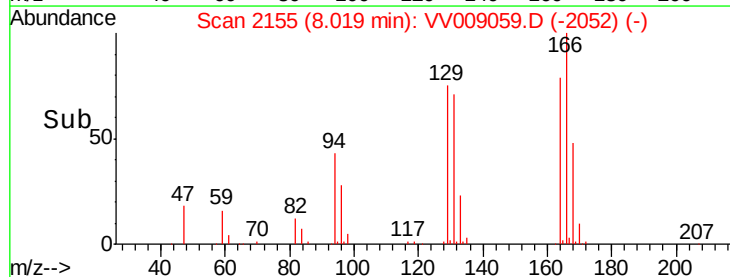
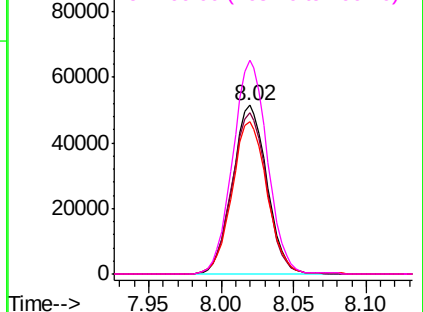


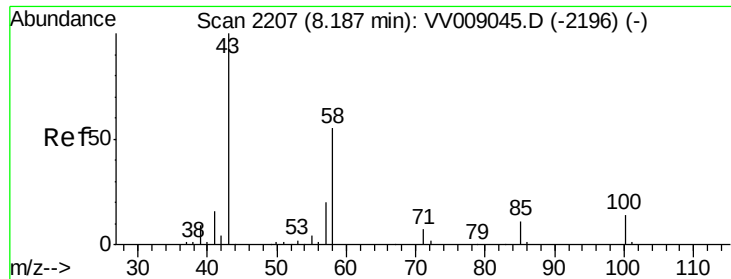
Abundance Ion 164.00 (163.70 to 164.70): VV009045.D (-2142) (-)

Ion 129.00 (128.70 to 129.70): VV009045.D (-2142) (-)

Ion 131.00 (130.70 to 131.70): VV009045.D (-2142) (-)

Ion 166.00 (165.70 to 166.70): VV009045.D (-2142) (-)

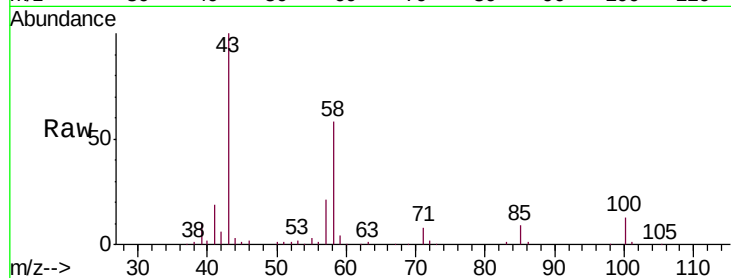




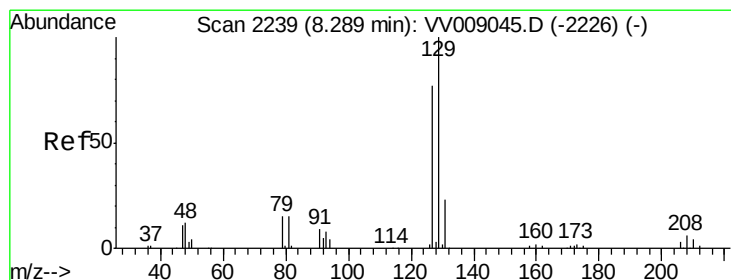
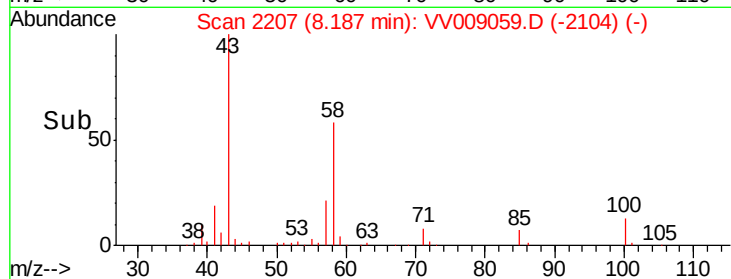
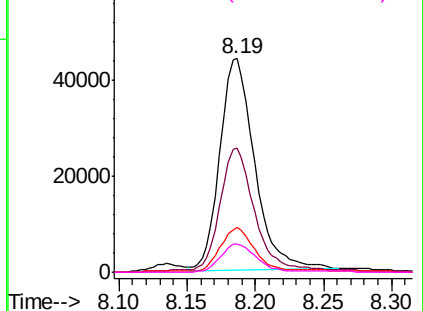
#49
2-Hexanone
Concen: 38.725 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV009059.D
Acq: 19 Dec 2018 20:00

Instrument :
MSVOA_V
ClientSampleId :
VSTD02568

Tgt Ion: 43 Resp: 78372
Ion Ratio Lower Upper
43 100
58 56.8 43.9 65.9
57 19.8 15.7 23.5
100 13.7 11.0 16.4

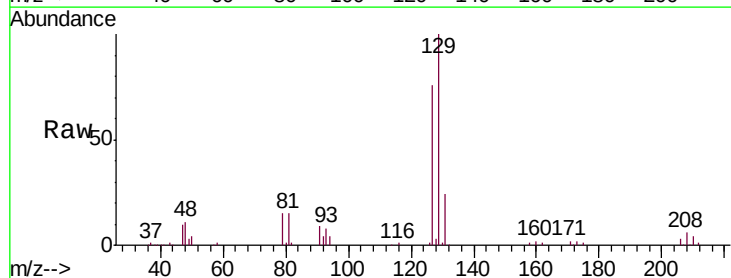


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

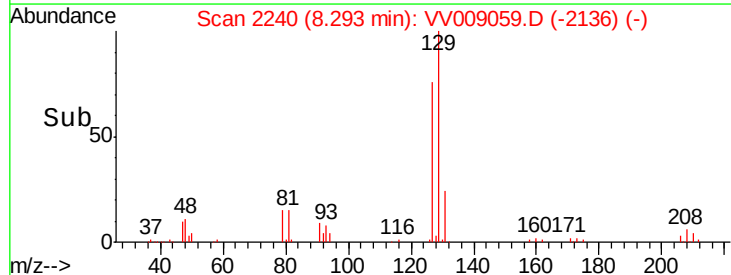
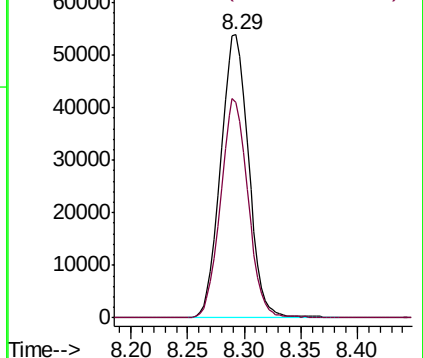


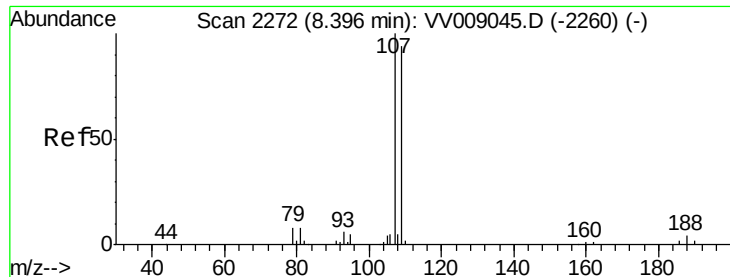
#50
Dibromochloromethane
Concen: 26.876 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV009059.D
Acq: 19 Dec 2018 20:00

Tgt Ion: 129 Resp: 92906
Ion Ratio Lower Upper
129 100
127 76.4 53.5 99.3



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





#51

1,2-Dibromoethane

Concen: 23.971 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD02568

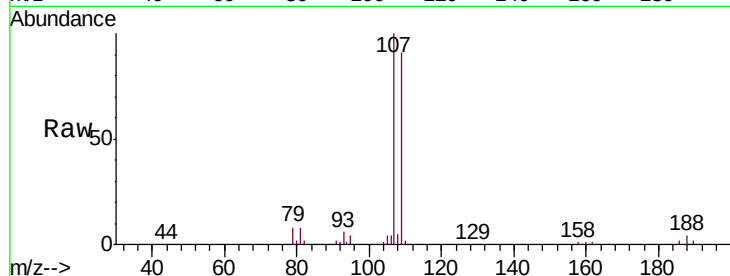
Tgt Ion:107 Resp: 72592

Ion Ratio Lower Upper

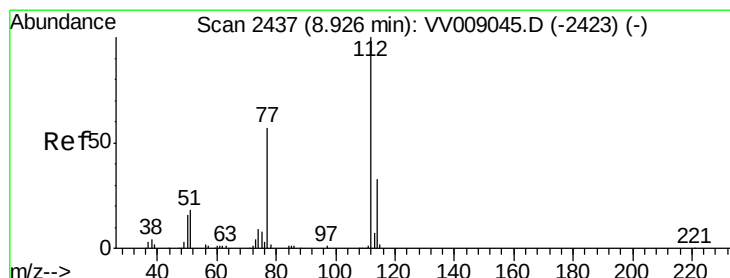
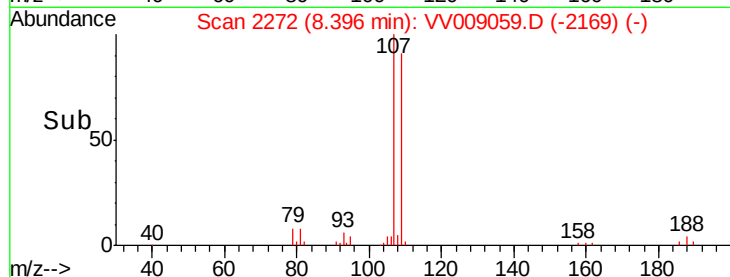
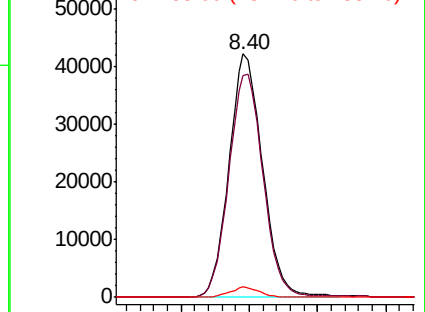
107 100

109 91.3 65.8 122.2

188 4.1 3.0 4.6



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 24.808 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

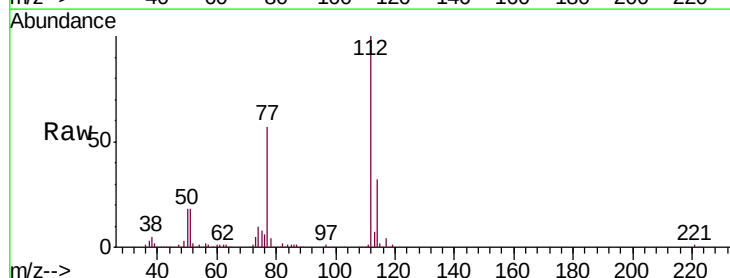
Tgt Ion:112 Resp: 255474

Ion Ratio Lower Upper

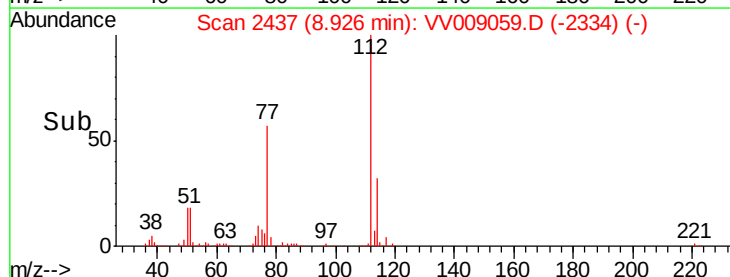
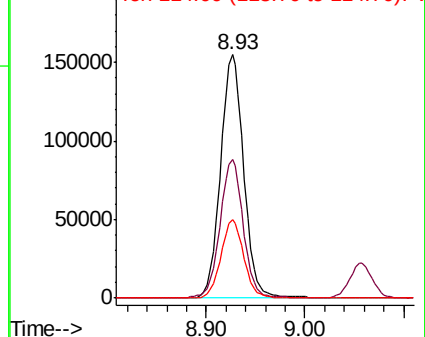
112 100

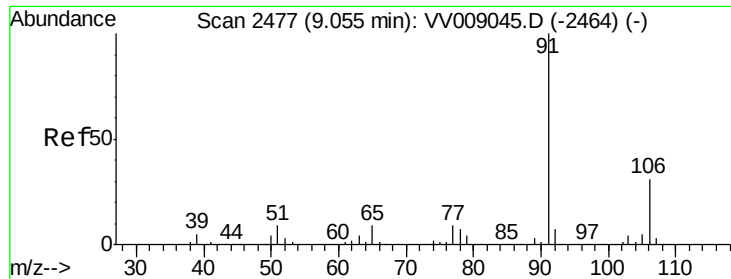
77 56.9 44.6 66.8

114 32.2 22.6 42.0



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





#53

Ethylbenzene

Concen: 24.772 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

Instrument :

MSVOA_V

ClientSampleId :

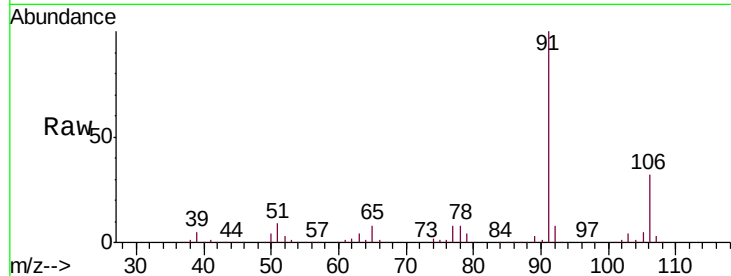
VSTD02568

Tgt Ion: 91 Resp: 425008

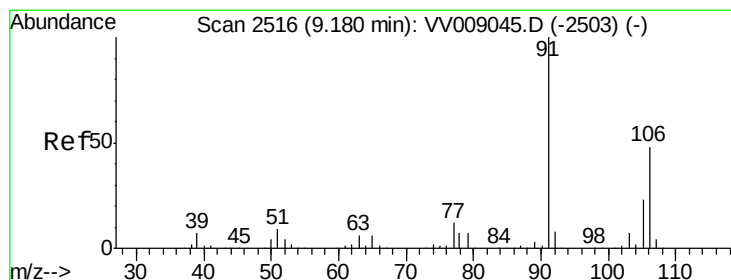
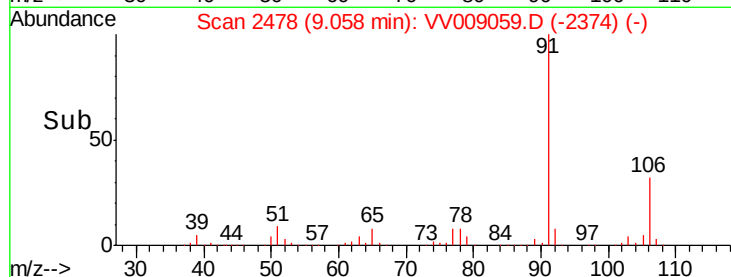
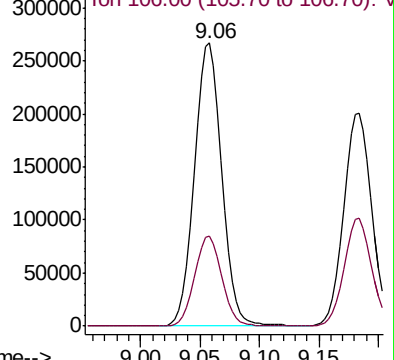
Ion Ratio Lower Upper

91 100

106 31.7 21.3 39.5



Abundance Ion 91.00 (90.70 to 91.70): VV009045.D (-2464) (-)



#54

m,p-Xylene

Concen: 25.163 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV009059.D

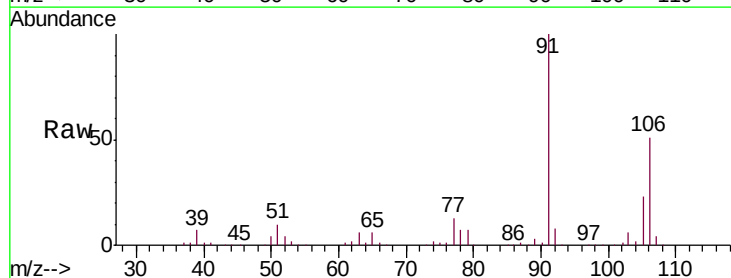
Acq: 19 Dec 2018 20:00

Tgt Ion: 106 Resp: 163465

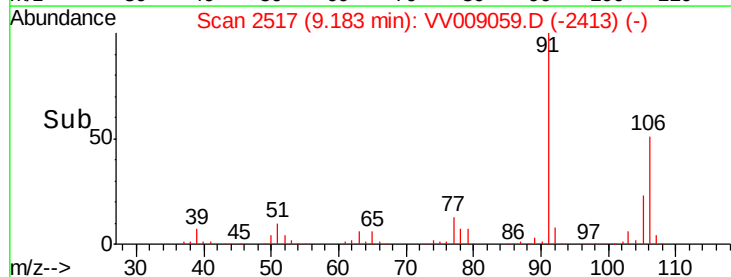
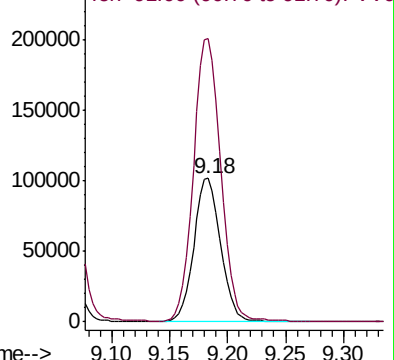
Ion Ratio Lower Upper

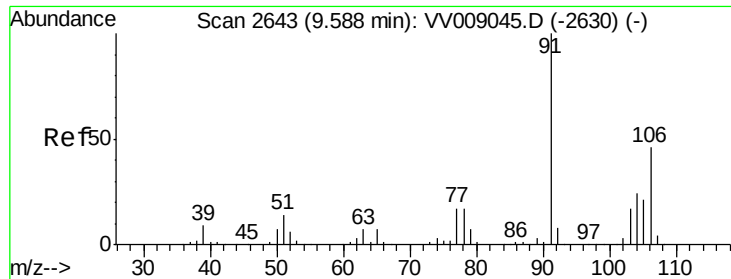
106 100

91 197.5 141.3 262.3



Abundance Ion 106.00 (105.70 to 106.70): VV009045.D (-2503) (-)





#55

o-xylene

Concen: 25.564 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

Instrument :

MSVOA_V

ClientSampleId :

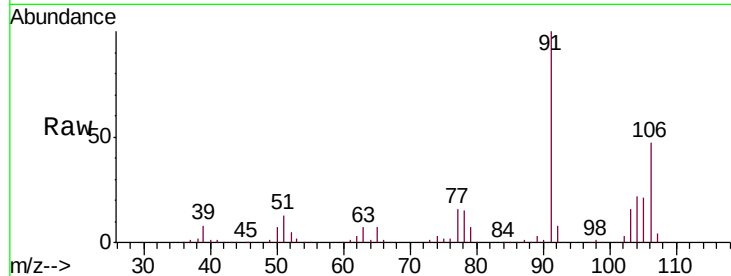
VSTD02568

Tgt Ion:106 Resp: 154298

Ion Ratio Lower Upper

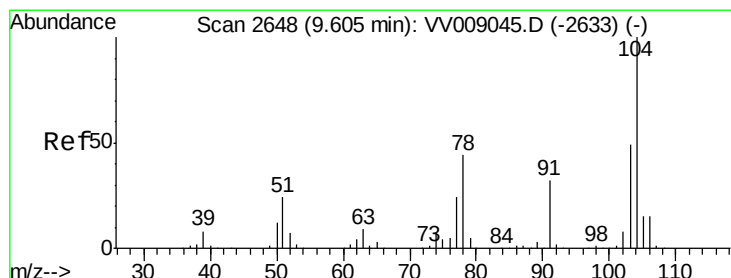
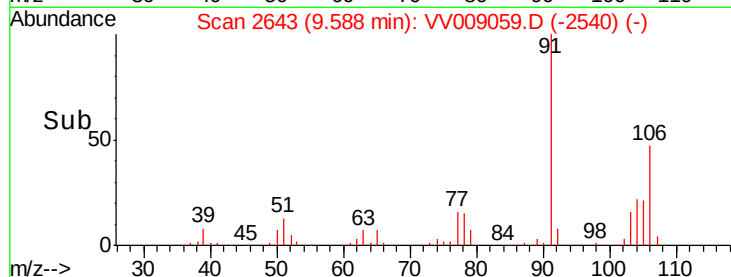
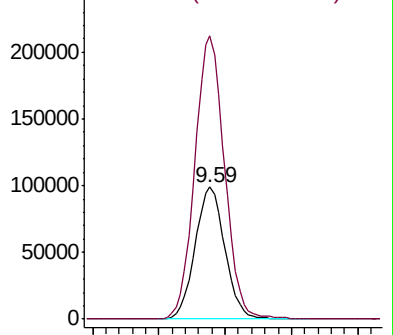
106 100

91 214.8 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 26.051 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV009059.D

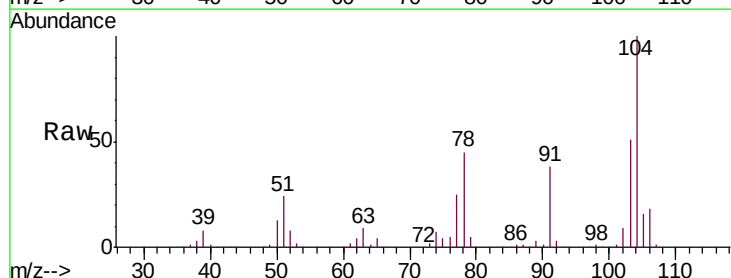
Acq: 19 Dec 2018 20:00

Tgt Ion:104 Resp: 253655

Ion Ratio Lower Upper

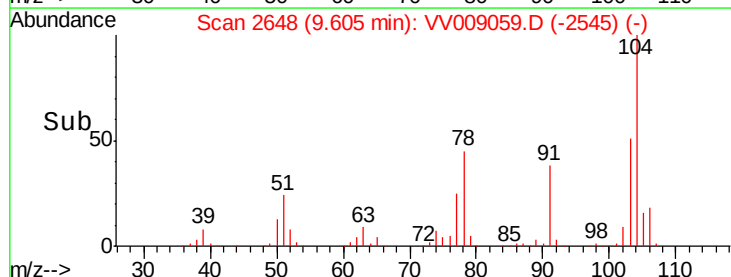
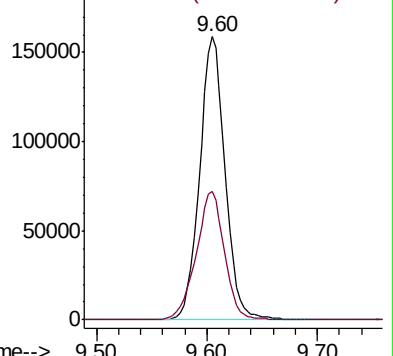
104 100

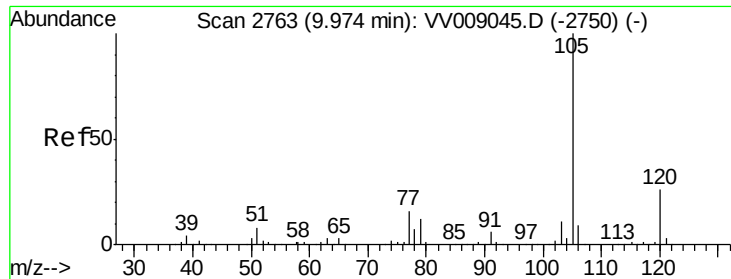
78 45.3 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 25.159 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD02568

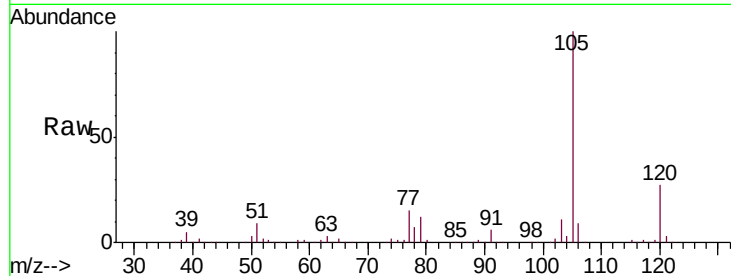
Tgt Ion: 105 Resp: 412722

Ion Ratio Lower Upper

105 100

120 26.7 21.7 32.5

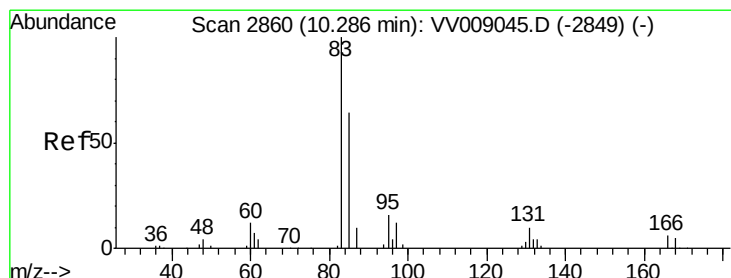
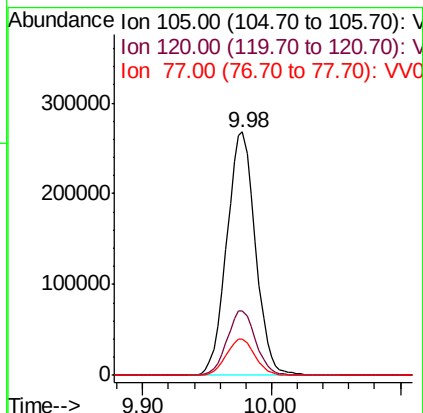
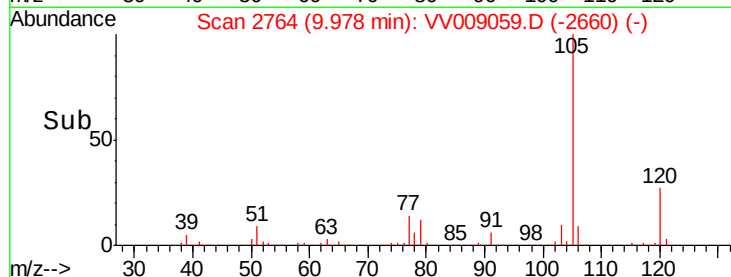
77 15.1 12.4 18.6



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: 22.366 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

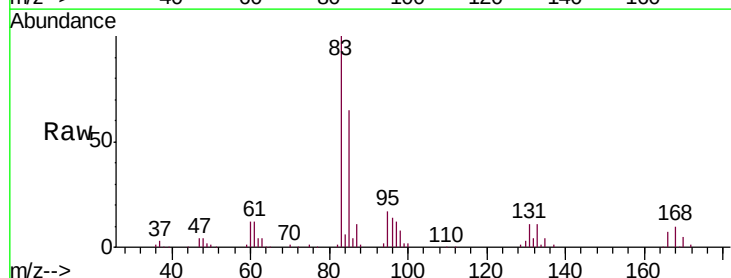
Tgt Ion: 83 Resp: 72916

Ion Ratio Lower Upper

83 100

85 65.3 44.3 82.3

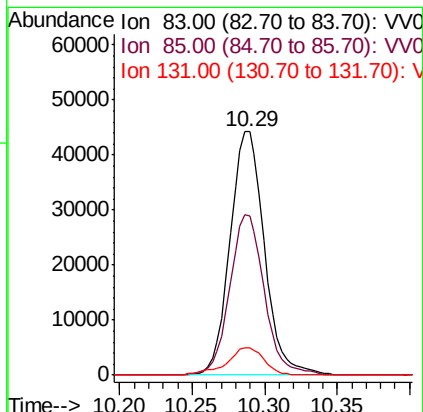
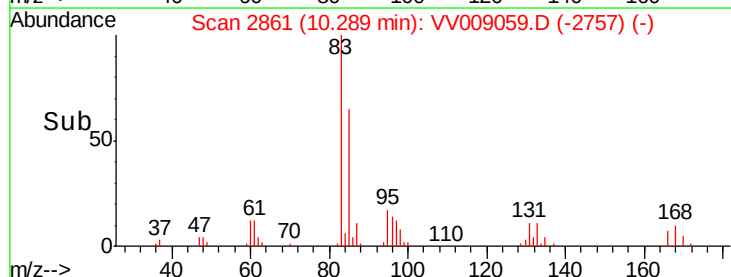
131 11.1 7.8 11.8

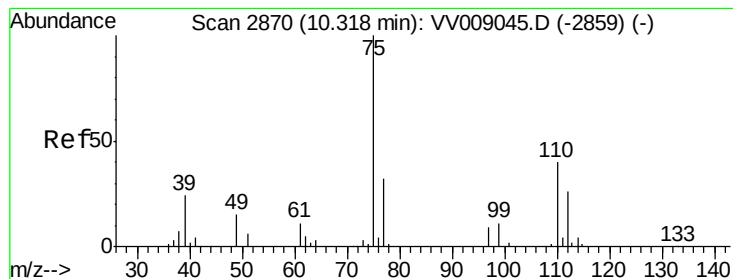


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 21.758 ug/L

RT: 10.32 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

Instrument :

MSVOA_V

ClientSampleId :

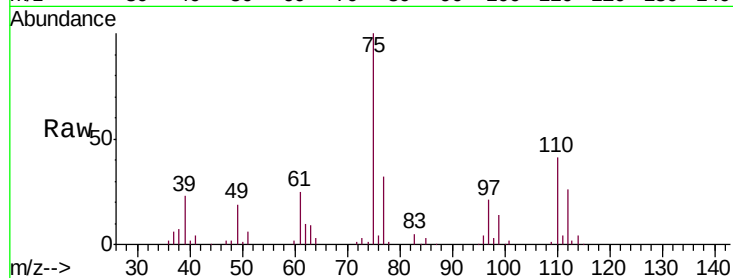
VSTD02568

Tgt Ion: 75 Resp: 61378

Ion Ratio Lower Upper

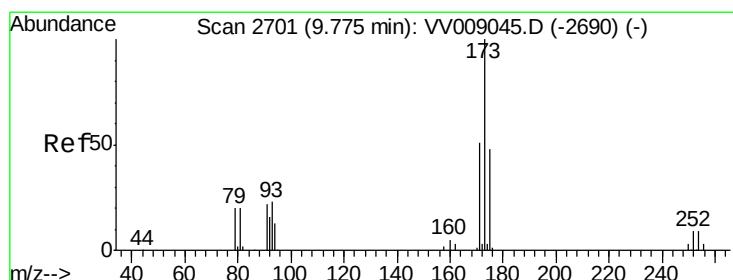
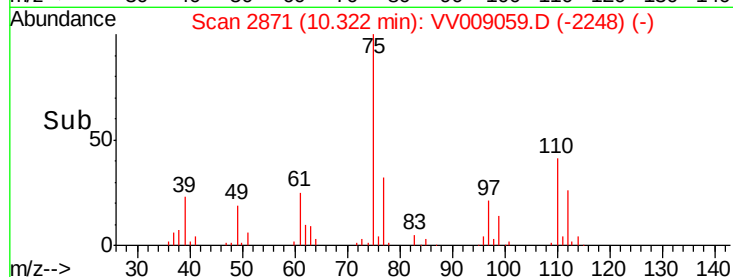
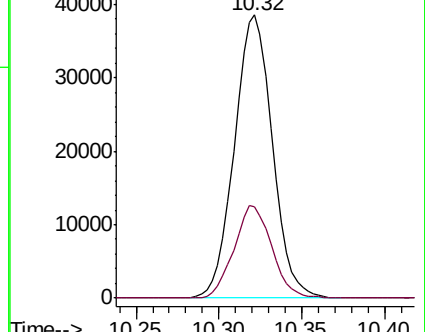
75 100

77 32.6 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VV009045.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV009045.D (-2859) (-)



#62

Bromoform

Concen: 23.789 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

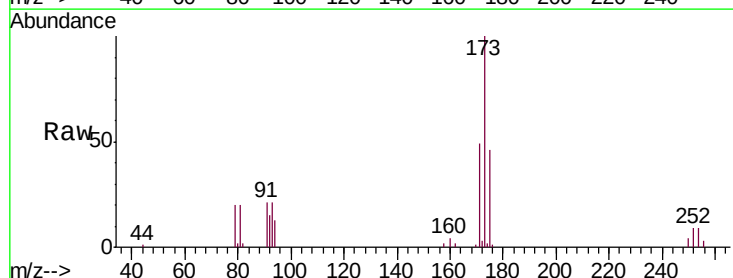
Tgt Ion: 173 Resp: 52062

Ion Ratio Lower Upper

173 100

175 47.1 37.7 56.5

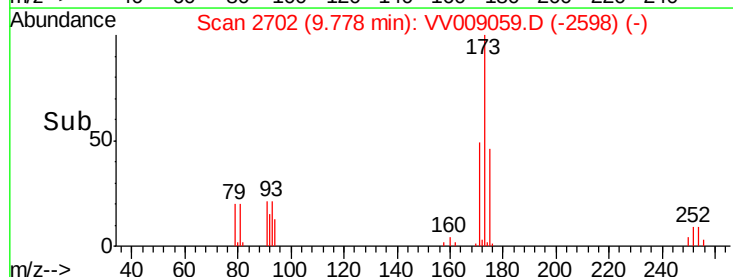
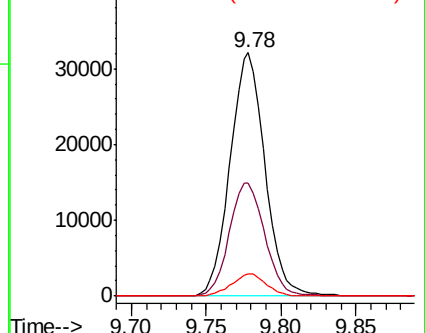
254 9.0 7.1 10.7

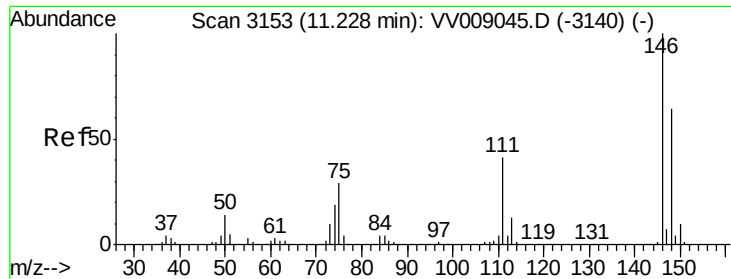


Abundance Ion 173.00 (172.70 to 173.70): VV009045.D (-2690) (-)

Ion 175.00 (174.70 to 175.70): VV009045.D (-2690) (-)

Ion 254.00 (253.70 to 254.70): VV009045.D (-2690) (-)

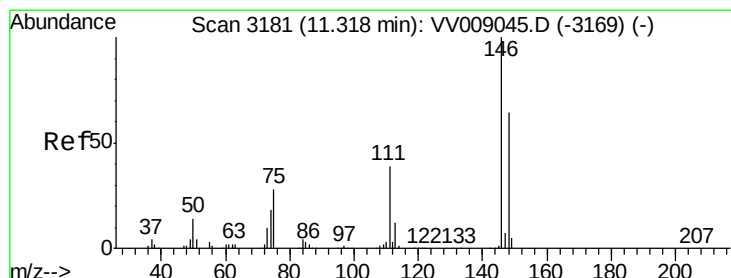
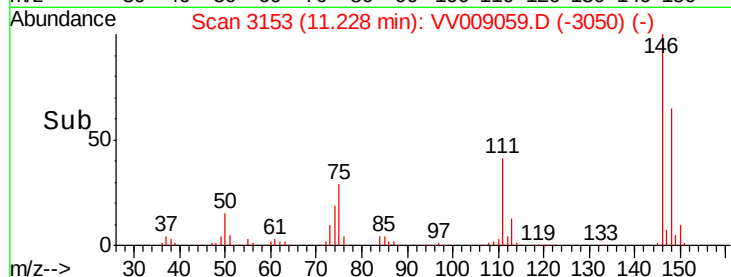
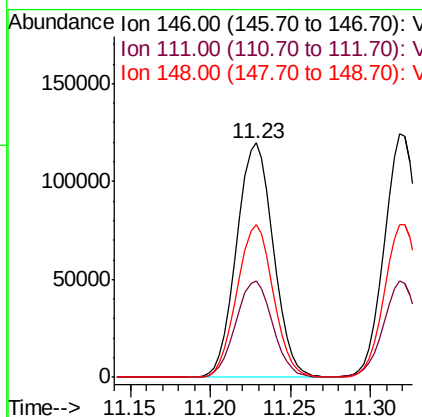
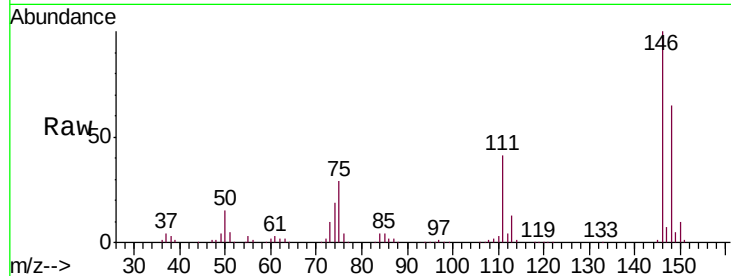




#63
 1,3-Dichlorobenzene
 Concen: 24.047 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV009059.D
 Acq: 19 Dec 2018 20:00

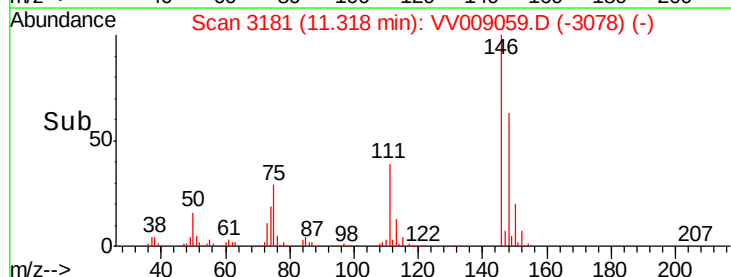
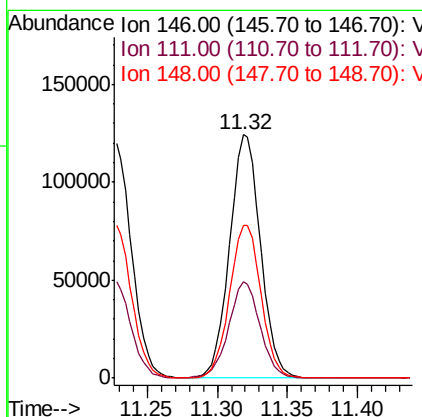
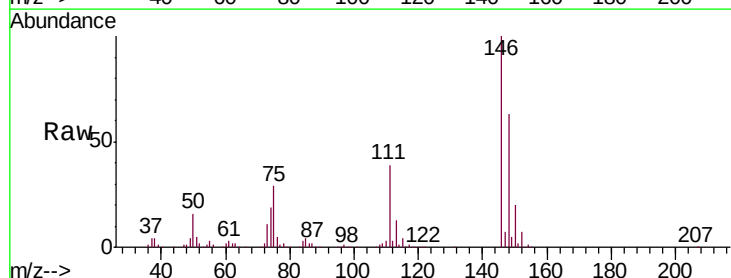
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02568

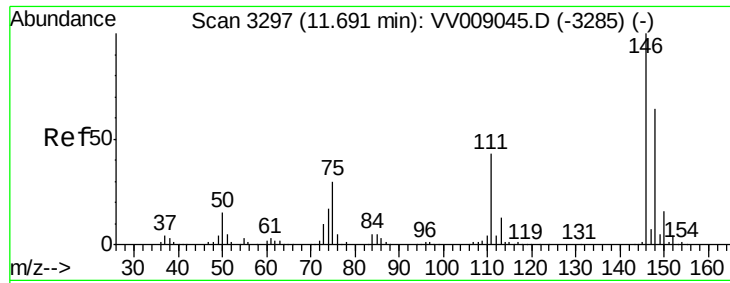
Tgt Ion:146 Resp: 187823
 Ion Ratio Lower Upper
 146 100
 111 41.0 27.5 51.1
 148 65.2 44.0 81.8



#64
 1,4-Dichlorobenzene
 Concen: 23.764 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV009059.D
 Acq: 19 Dec 2018 20:00

Tgt Ion:146 Resp: 191003
 Ion Ratio Lower Upper
 146 100
 111 39.5 26.8 49.8
 148 62.6 45.8 85.0





#65

1,2-Dichlorobenzene

Concen: 24.305 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD02568

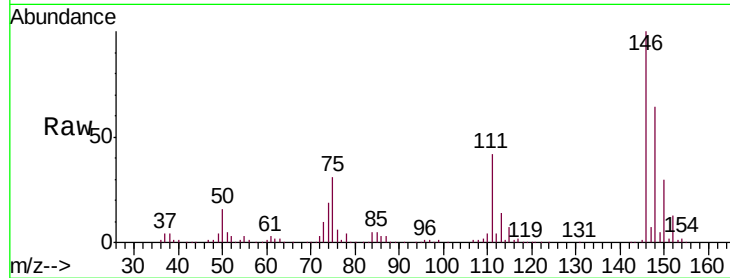
Tgt Ion: 146 Resp: 175006

Ion Ratio Lower Upper

146 100

111 42.0 34.2 51.4

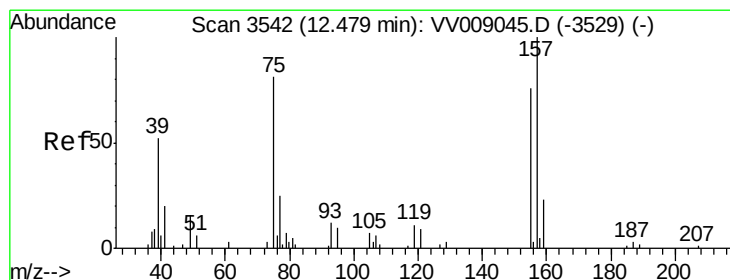
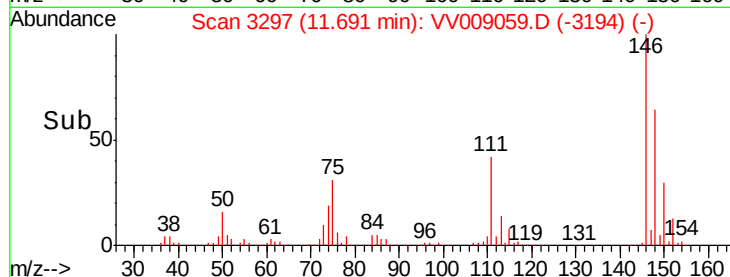
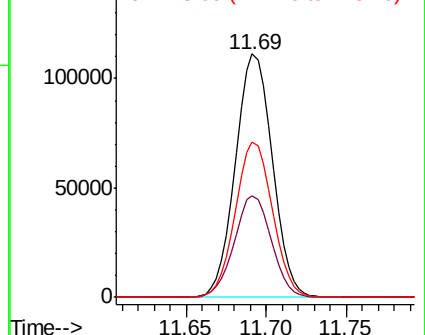
148 63.9 51.0 76.6



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



#66

1,2-Dibromo-3-chloropropane

Concen: 20.962 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

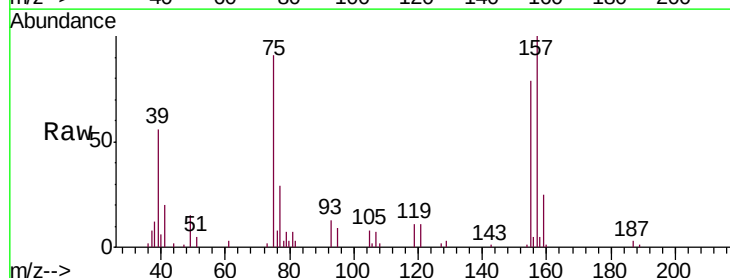
Tgt Ion: 75 Resp: 12366

Ion Ratio Lower Upper

75 100

157 109.9 95.8 143.6

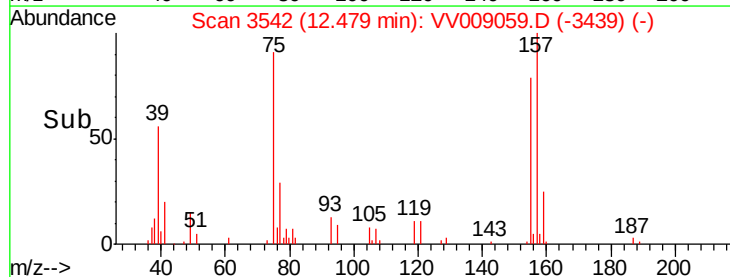
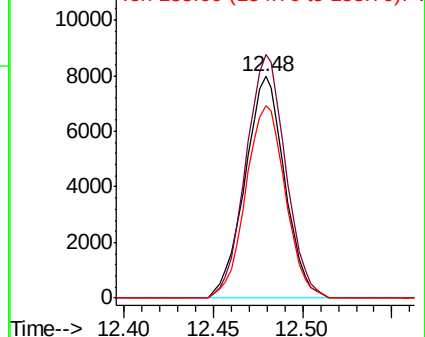
155 86.7 71.4 107.2

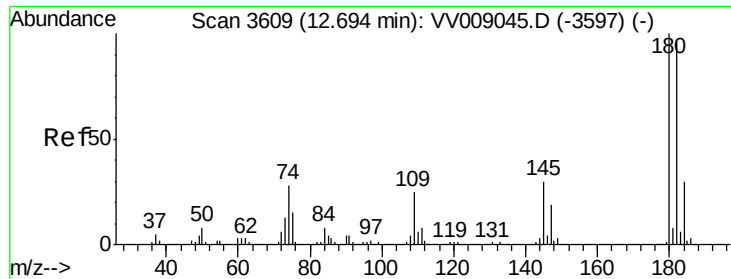


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

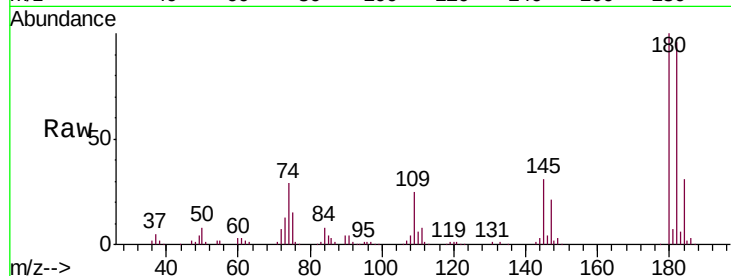




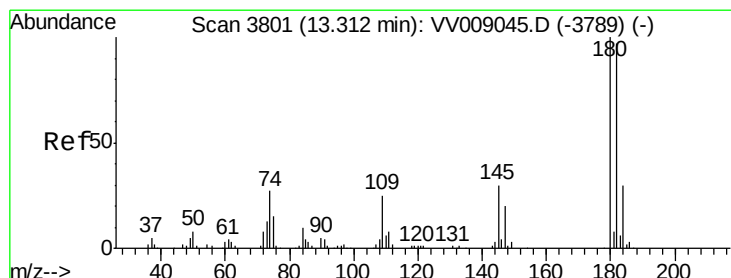
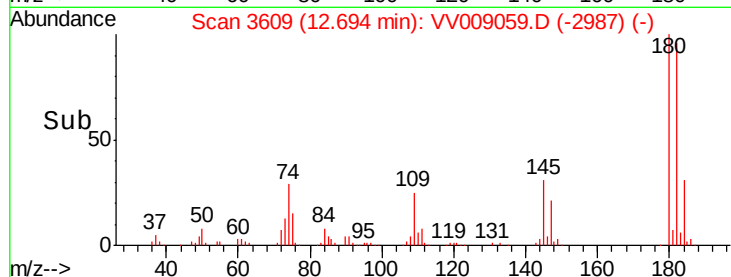
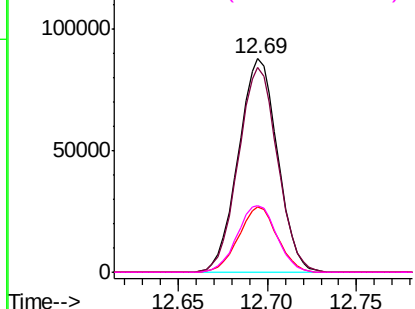
#67
 1,3,5-Trichlorobenzene
 Concen: 23.886 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV009059.D
 Acq: 19 Dec 2018 20:00

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02568

Tgt Ion:180 Resp: 134756
 Ion Ratio Lower Upper
 180 100
 182 95.9 75.9 113.9
 184 30.3 23.8 35.6
 145 31.4 24.2 36.4

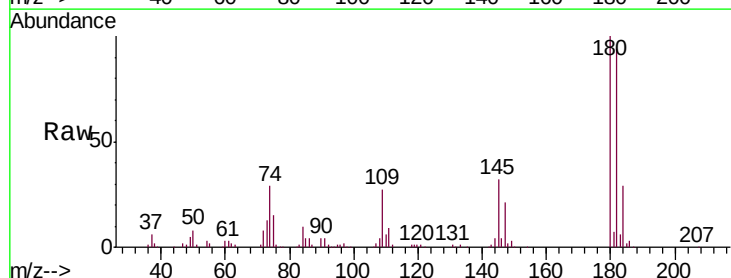


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

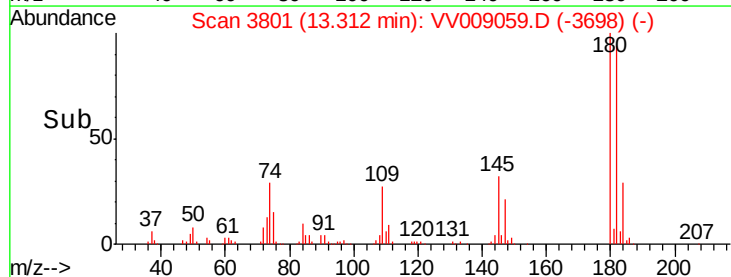
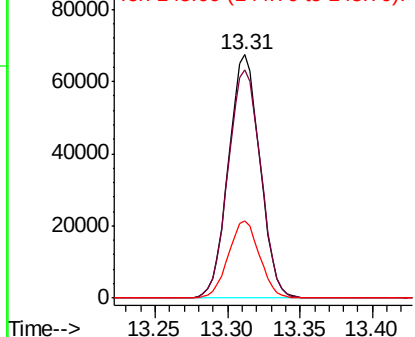


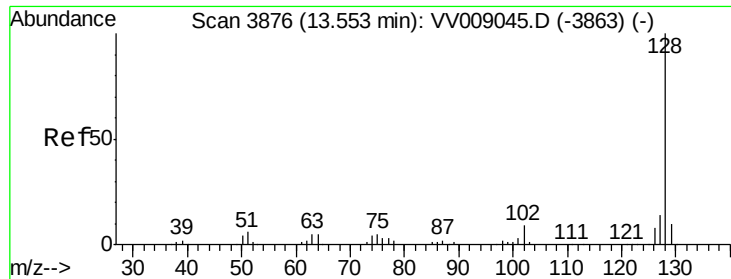
#68
 1,2,4-trichlorobenzene
 Concen: 25.696 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009059.D
 Acq: 19 Dec 2018 20:00

Tgt Ion:180 Resp: 101574
 Ion Ratio Lower Upper
 180 100
 182 96.9 77.4 116.0
 145 31.5 25.6 38.4



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





#69

Naphthalene

Concen: 24.767 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD02568

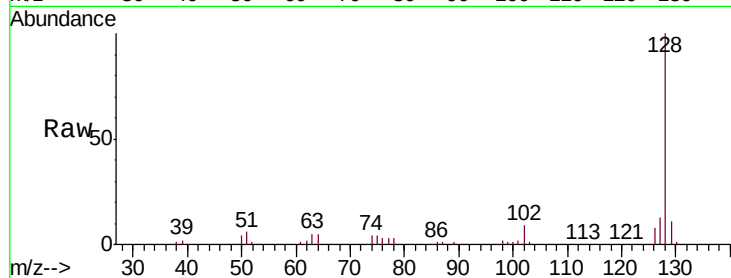
Tgt Ion:128 Resp: 168624

Ion Ratio Lower Upper

128 100

129 10.6 8.6 13.0

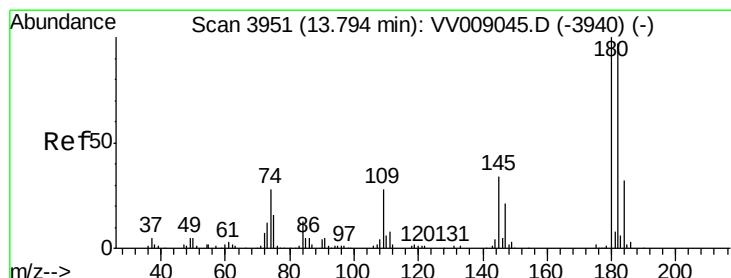
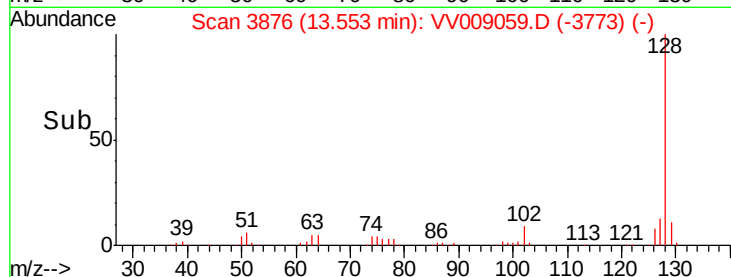
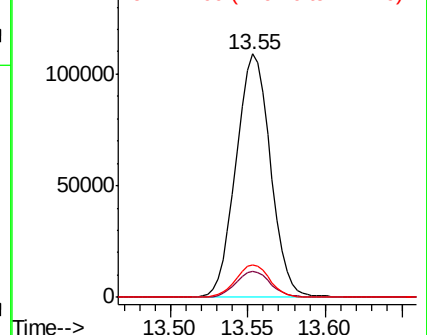
127 13.3 10.0 15.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 25.605 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV009059.D

Acq: 19 Dec 2018 20:00

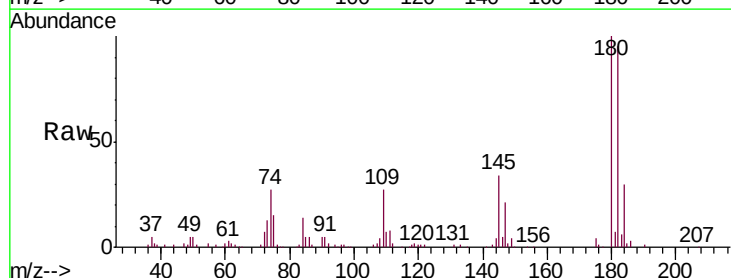
Tgt Ion:180 Resp: 93503

Ion Ratio Lower Upper

180 100

182 94.5 76.1 114.1

145 33.5 26.7 40.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

