

Data File : VV009895.D
Acq On : 26 Mar 2019 15:08
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

Quant Time: Mar 27 01:40:45 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM032619S.M
Quant Title : VOC Analysis
QLast Update : Tue Mar 26 14:58:43 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	190178	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	190794	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	90763	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	87435	22.66	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	90.64%
7) Chloroethane-d5	1.57	69	92619	22.22	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.88%
10) 1,1-Dichloroethene-d2	2.13	63	248786	23.57	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	94.28%
20) 2-Butanone-d5	3.93	46	41737	58.04	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	116.08%
24) Chloroform-d	4.40	84	119968	24.76	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	99.04%
26) 1,2-Dichloroethane-d4	5.08	65	73288	25.13	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.52%
29) Benzene-d6	5.10	84	247603	24.71	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	98.84%
33) 1,2-Dichloropropane-d6	6.12	67	72460	24.72	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	98.88%
37) Toluene-d8	7.36	98	230577	24.31	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	97.24%
38) trans-1,3-Dichloropropene-	7.66	79	30082	25.09	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	100.36%
39) 2-Hexanone-d5	8.13	63	29586	54.07	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.14%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	75684	26.08	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	104.32%
61) 1,2-Dichlorobenzene-d4	11.67	152	84791	24.54	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	98.16%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	68827	23.376	ug/L 98
3) Chloromethane	1.25	50	73546	21.614	ug/L 96
5) Vinyl chloride	1.32	62	105685	23.887	ug/L 97
6) Bromomethane	1.51	94	104658	23.716	ug/L 99
8) Chloroethane	1.59	64	81929	21.496	ug/L 98
9) Trichlorofluoromethane	1.76	101	226023	23.955	ug/L 100
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	131464	23.971	ug/L 99
12) 1,1-Dichloroethene	2.14	96	113547	24.407	ug/L 91
13) Acetone	2.18	43	59458	54.608	ug/L 98
14) Carbon disulfide	2.32	76	157646	25.046	ug/L 98
15) Methyl Acetate	2.46	43	35015	27.455	ug/L 97
16) Methylene chloride	2.53	84	67919	21.687	ug/L 98
17) Methyl tert-butyl Ether	2.80	73	156878	25.843	ug/L 98
18) trans-1,2-Dichloroethene	2.79	96	61633	24.734	ug/L 93
19) 1,1-Dichloroethane	3.23	63	112996	24.796	ug/L 98
21) 2-Butanone	4.01	43	53890	55.573	ug/L 95
22) cis-1,2-Dichloroethene	3.96	96	70451	25.605	ug/L 94

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Quant Title : VOC Analysis
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	31429	24.738	ug/L	96
25) Chloroform	4.42	83	124654	24.740	ug/L	98
27) 1,2-Dichloroethane	5.18	62	90727	25.414	ug/L	100
30) Cyclohexane	4.72	56	98833	25.691	ug/L	98
31) 1,1,1-Trichloroethane	4.66	97	95316	24.963	ug/L	98
32) Carbon tetrachloride	4.87	117	85830	25.862	ug/L	96
34) Benzene	5.15	78	258919	24.713	ug/L	100
35) Trichloroethene	5.96	95	68104	24.643	ug/L	97
36) Methylcyclohexane	6.18	83	110321	25.443	ug/L	98
40) 1,2-Dichloropropane	6.22	63	66142	25.264	ug/L #	95
41) Bromodichloromethane	6.55	83	84990	26.104	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	95091	24.913	ug/L	100
43) 4-Methyl-2-pentanone	7.27	43	102613	54.924	ug/L	98
44) Toluene	7.43	91	285087	24.682	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	84179	26.941	ug/L	92
46) 1,1,2-Trichloroethane	7.88	97	54982	25.393	ug/L	98
47) Tetrachloroethene	8.02	164	53003	24.305	ug/L	96
49) 2-Hexanone	8.18	43	74751	59.200	ug/L #	97
50) Dibromochloromethane	8.29	129	60142	26.787	ug/L	100
51) 1,2-Dibromoethane	8.40	107	54836	26.082	ug/L	95
52) Chlorobenzene	8.93	112	189868	24.693	ug/L	98
53) Ethylbenzene	9.05	91	316043	24.805	ug/L	99
54) m,p-Xylene	9.18	106	121855	24.351	ug/L	89
55) o-xylene	9.59	106	121879	25.092	ug/L	96
56) Styrene	9.60	104	202969	24.328	ug/L	94
57) Isopropylbenzene	9.98	105	317919	25.230	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	75757	25.957	ug/L	95
59) 1,2,3-Trichloropropane	10.32	75	54706	25.971	ug/L	98
62) Bromoform	9.77	173	31406	26.901	ug/L	98
63) 1,3-Dichlorobenzene	11.23	146	139081	24.775	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	145539	23.855	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	135779	24.507	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	9718	28.064	ug/L	96
67) 1,3,5-Trichlorobenzene	12.69	180	99361	24.923	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	76506	26.014	ug/L	98
69) Naphthalene	13.55	128	141305	28.905	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	74619	26.684	ug/L	99

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

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VSTD02564

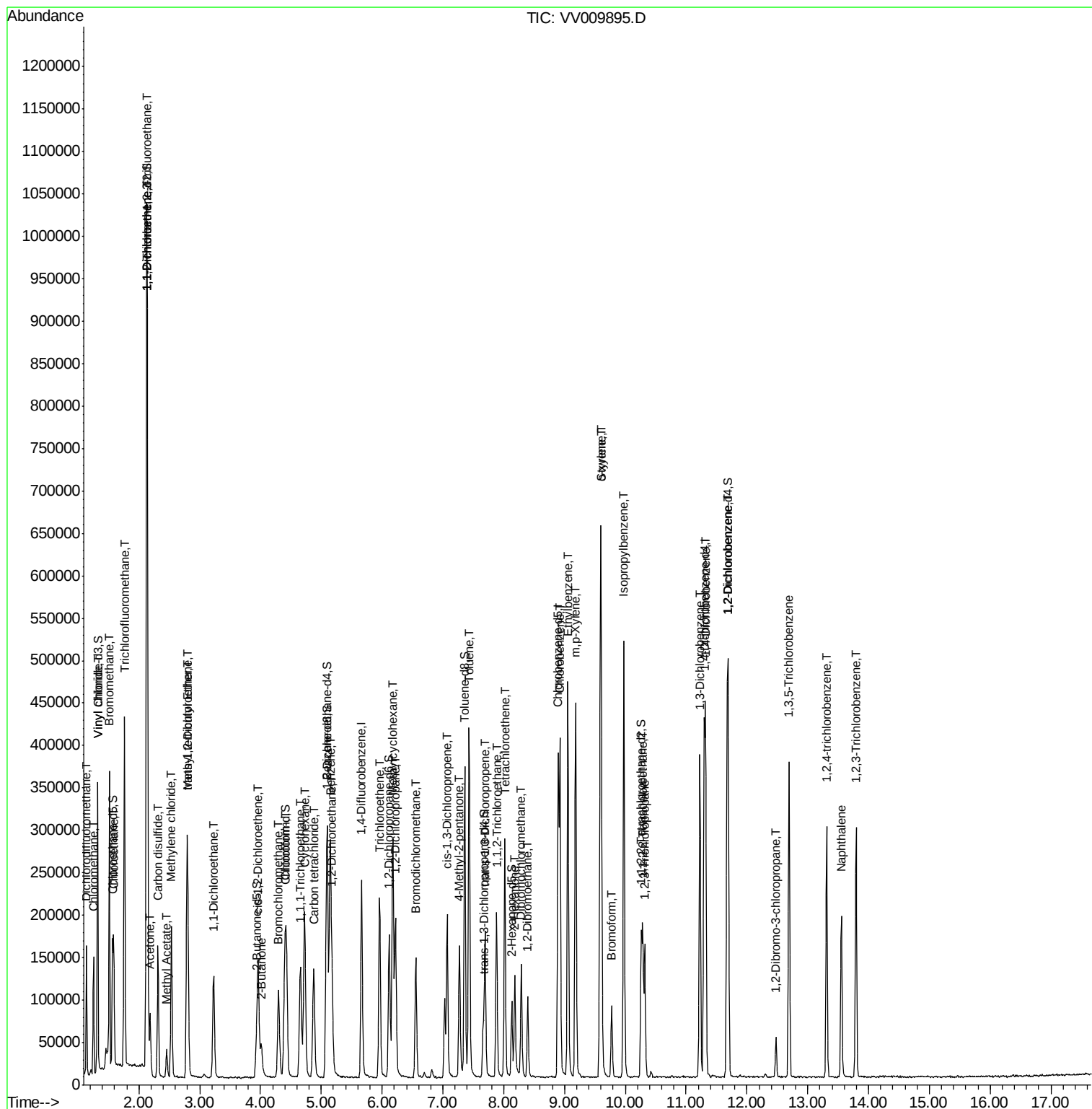
Quant Time: Mar 27 01:40:45 2019

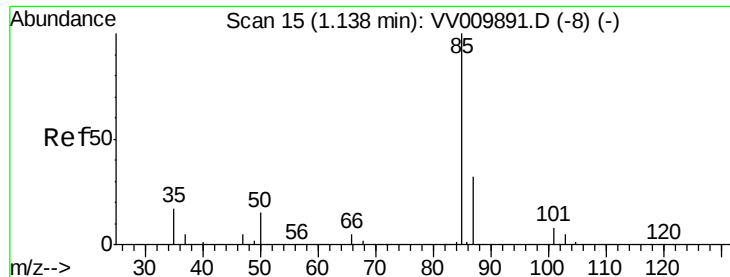
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM032619S.M

Quant Title : VOC Analysis

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 23.376 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

Instrument :

MSVOA_V

ClientSampleId :

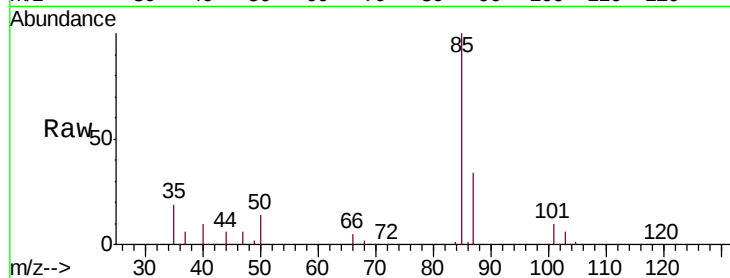
VSTD02564

Tgt Ion: 85 Resp: 68827

Ion Ratio Lower Upper

85 100

87 32.6 22.2 41.2



Abundance Ion 85.00 (84.70 to 85.70): VV009895.D (-8) (-)

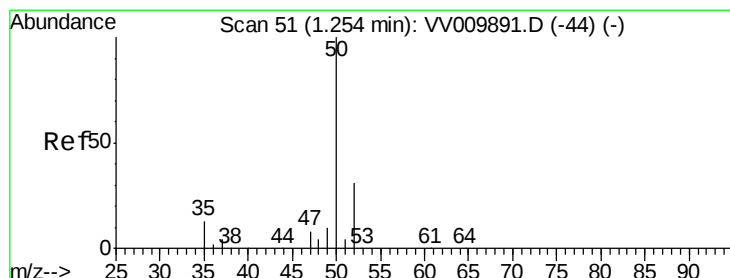
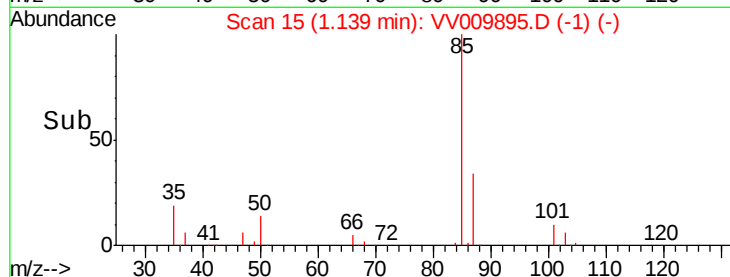
Ion 87.00 (86.70 to 87.70): VV009895.D (-8) (-)

1.14

1.15

1.20

Time-->



#3

Chloromethane

Concen: 21.614 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV009895.D

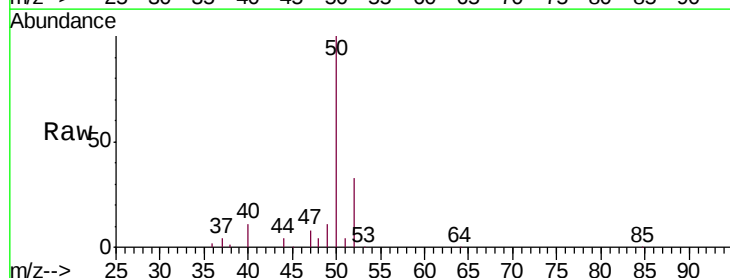
Acq: 26 Mar 2019 15:08

Tgt Ion: 50 Resp: 73546

Ion Ratio Lower Upper

50 100

52 33.4 21.8 40.6



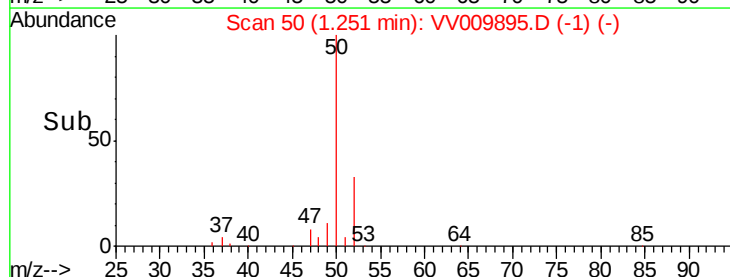
Abundance Ion 50.00 (49.70 to 50.70): VV009895.D (-44) (-)

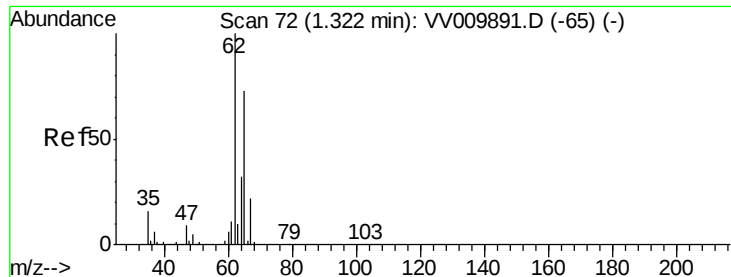
Ion 52.00 (51.70 to 52.70): VV009895.D (-44) (-)

1.25

1.30

Time-->





#5

Vinyl chloride

Concen: 23.887 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

Instrument :

MSVOA_V

ClientSampleId :

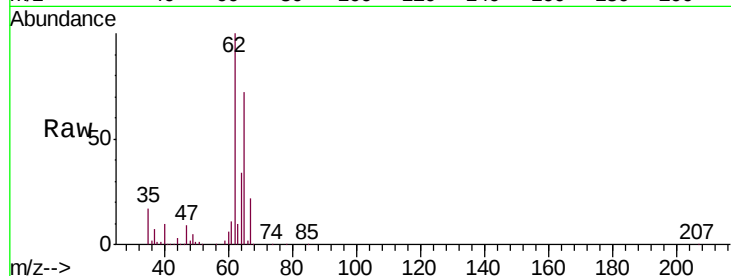
VSTD02564

Tgt Ion: 62 Resp: 105685

Ion Ratio Lower Upper

62 100

64 34.1 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VV009891.D (-65) (-)

Ion 64.00 (63.70 to 64.70): VV009891.D (-65) (-)

1.32

120000

100000

80000

60000

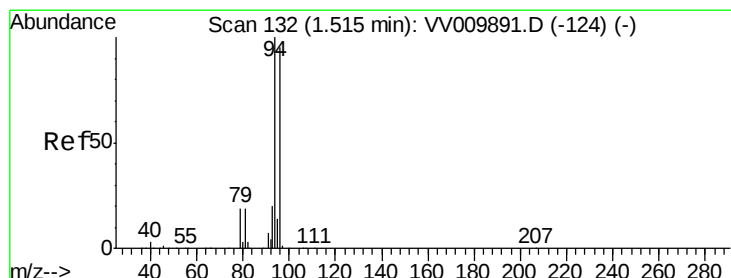
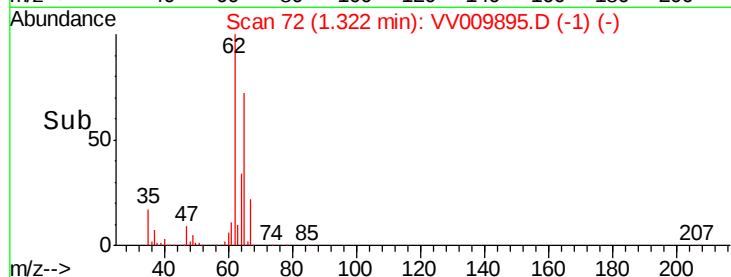
40000

20000

0

1.30 1.35

Time-->



#6

Bromomethane

Concen: 23.716 ug/L

RT: 1.51 min Scan# 132

Delta R.T. 0.00 min

Lab File: VV009895.D

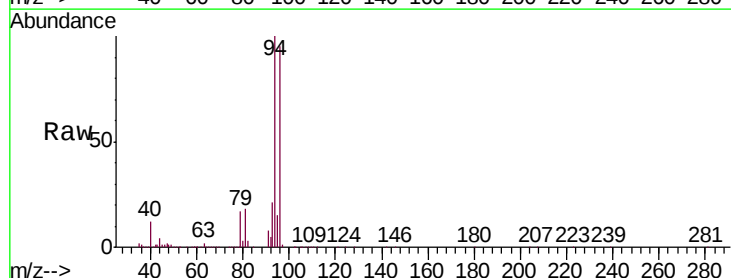
Acq: 26 Mar 2019 15:08

Tgt Ion: 94 Resp: 104658

Ion Ratio Lower Upper

94 100

96 94.9 9.4 179.4



Abundance Ion 94.00 (93.70 to 94.70): VV009891.D (-124) (-)

Ion 96.00 (95.70 to 96.70): VV009891.D (-124) (-)

1.51

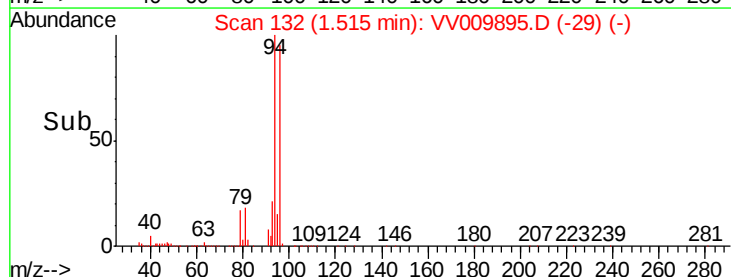
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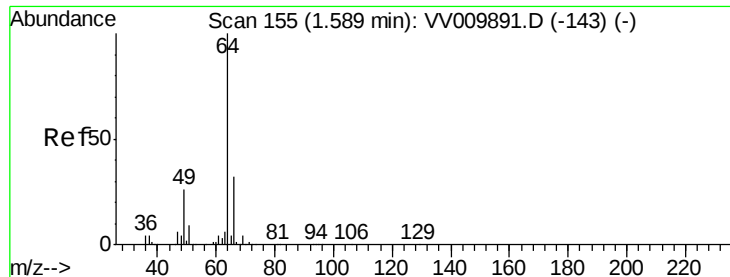
50000

0

1.50 1.55

Time-->





#8

Chloroethane

Concen: 21.496 ug/L

RT: 1.59 min Scan# 154

Delta R.T. -0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

Instrument :

MSVOA_V

ClientSampleId :

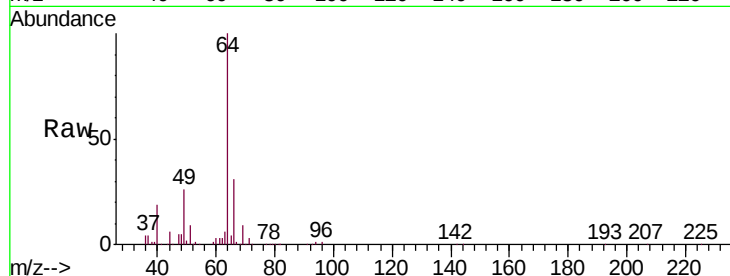
VSTD02564

Tgt Ion: 64 Resp: 81929

Ion Ratio Lower Upper

64 100

66 30.9 22.3 41.5



Abundance Ion 64.00 (63.70 to 64.70): VV009895.D (-143) (-)

Ion 66.00 (65.70 to 66.70): VV009895.D (-143) (-)

1.59

80000

60000

40000

20000

0

Time-->

1.55

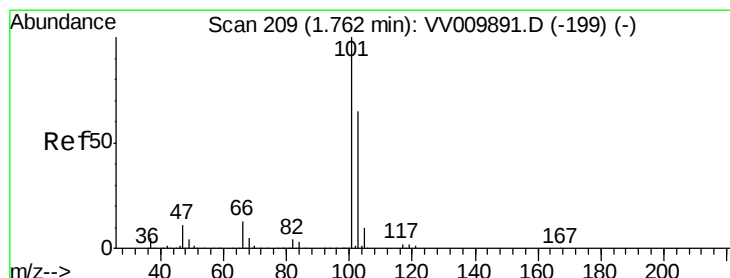
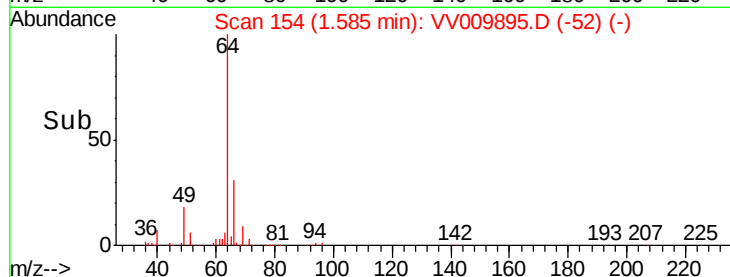
1.60

1.65

1.70

1.75

1.80



#9

Trichlorofluoromethane

Concen: 23.955 ug/L

RT: 1.76 min Scan# 209

Delta R.T. 0.00 min

Lab File: VV009895.D

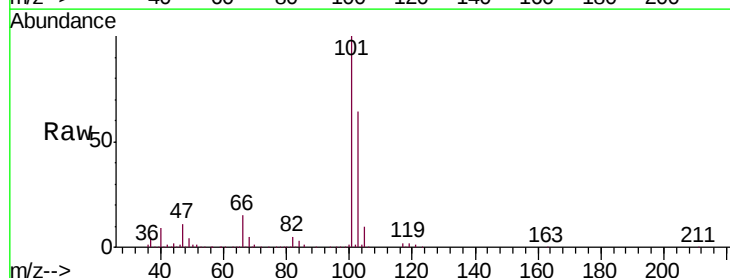
Acq: 26 Mar 2019 15:08

Tgt Ion: 101 Resp: 226023

Ion Ratio Lower Upper

101 100

103 64.3 45.1 83.9



Abundance Ion 101.00 (100.70 to 101.70): VV009895.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV009895.D (-199) (-)

1.76

200000

150000

100000

50000

0

Time-->

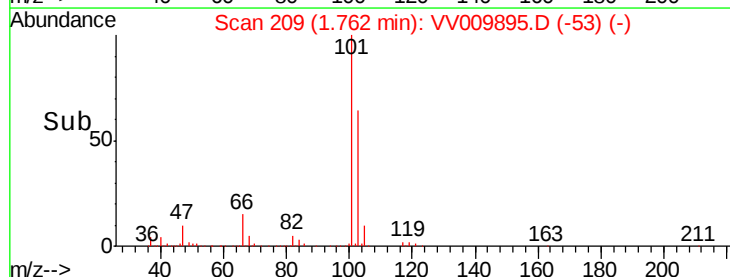
1.70

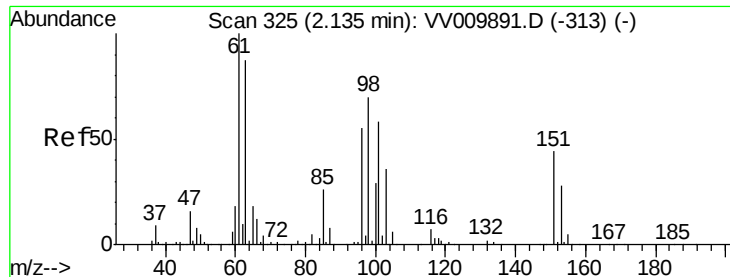
1.75

1.80

1.85

1.90





#11

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

Concen: 23.971 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

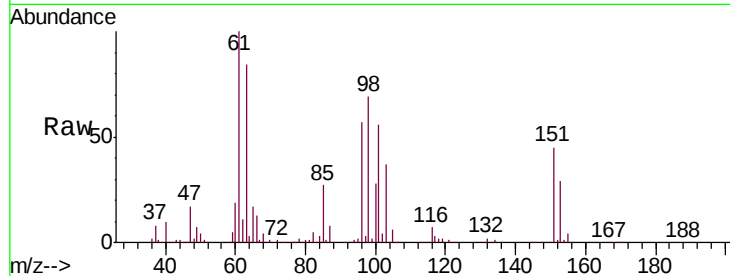
Tgt Ion:101 Resp: 131464

Ion Ratio Lower Upper

101 100

85 47.6 36.9 55.3

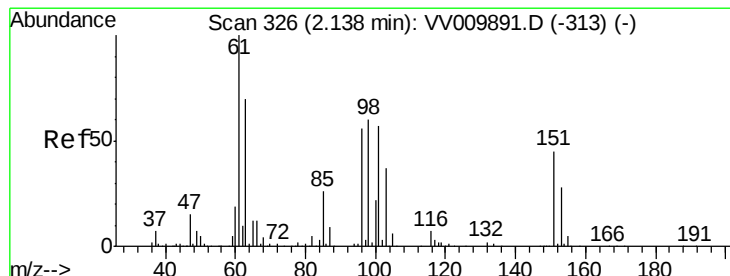
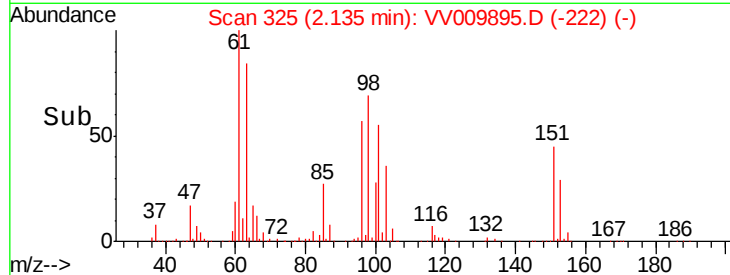
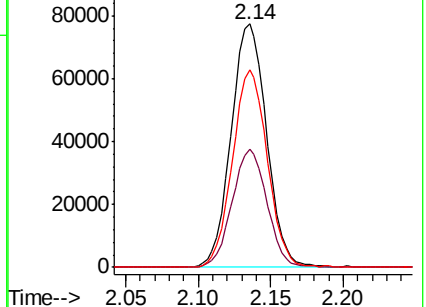
151 79.5 63.6 95.4



Abundance Ion 101.00 (100.70 to 101.70): VV009895.D (-222) (-)

Ion 85.00 (84.70 to 85.70): VV009895.D (-222) (-)

Ion 151.00 (150.70 to 151.70): VV009895.D (-222) (-)



#12

1,1-Dichloroethene

Concen: 24.407 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

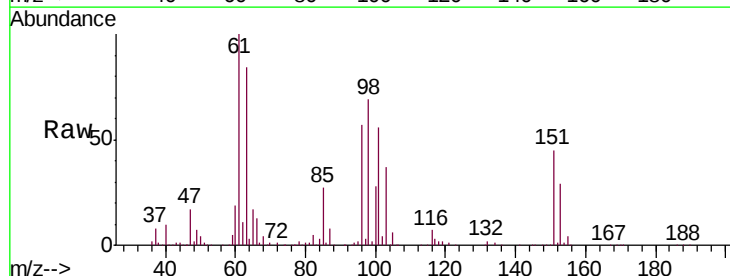
Tgt Ion: 96 Resp: 113547

Ion Ratio Lower Upper

96 100

61 175.6 124.3 230.8

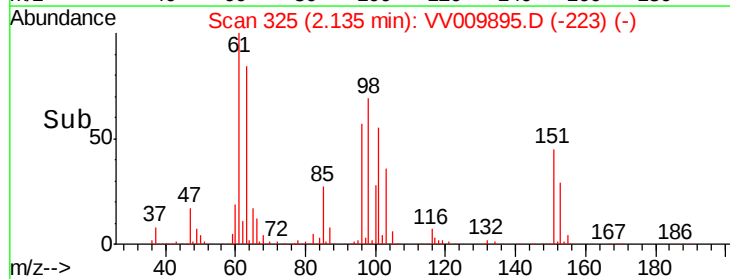
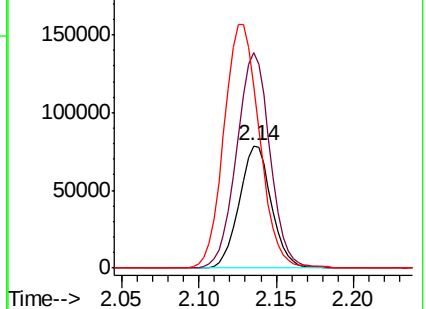
63 148.4 88.2 163.8

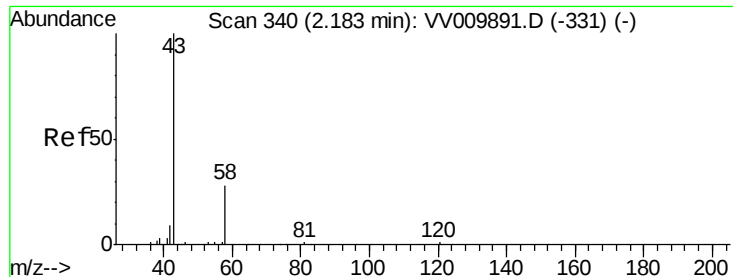


Abundance Ion 96.00 (95.70 to 96.70): VV009895.D (-223) (-)

Ion 61.00 (60.70 to 61.70): VV009895.D (-223) (-)

Ion 63.00 (62.70 to 63.70): VV009895.D (-223) (-)





#13

Acetone

Concen: 54.608 ug/L

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

Instrument :

MSVOA_V

ClientSampleId :

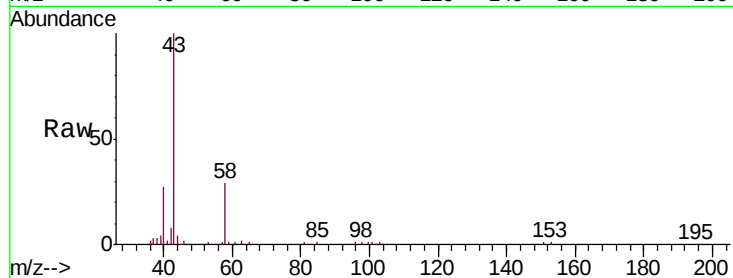
VSTD02564

Tgt Ion: 43 Resp: 59458

Ion Ratio Lower Upper

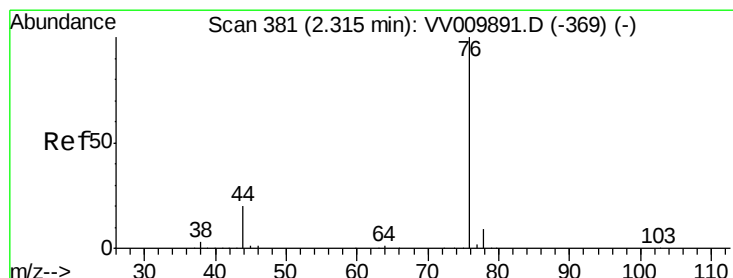
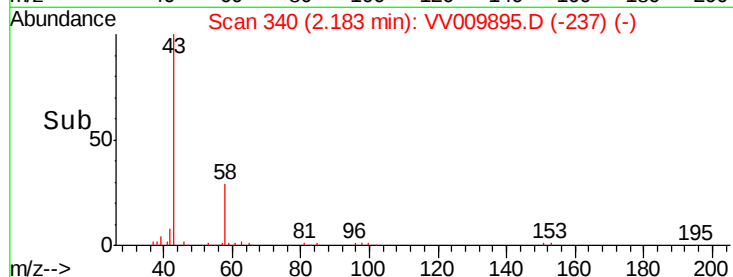
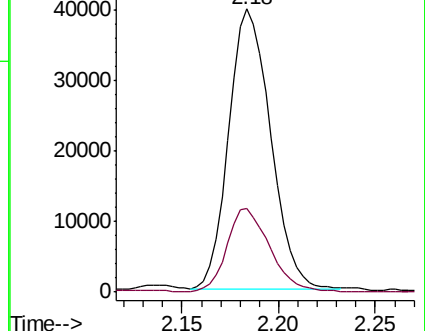
43 100

58 30.7 0.0 59.4



Abundance Ion 43.00 (42.70 to 43.70): VV009891.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV009891.D (-331) (-)



#14

Carbon disulfide

Concen: 25.046 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV009895.D

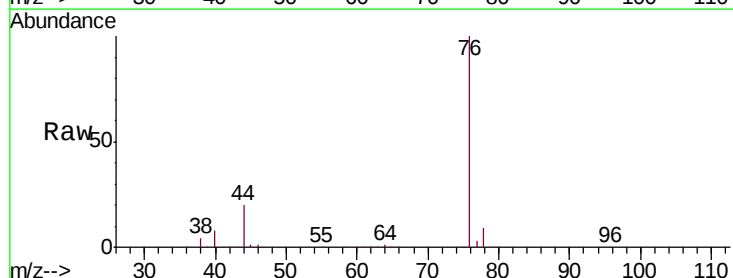
Acq: 26 Mar 2019 15:08

Tgt Ion: 76 Resp: 157646

Ion Ratio Lower Upper

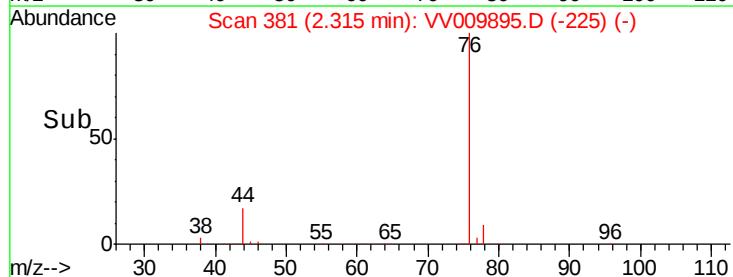
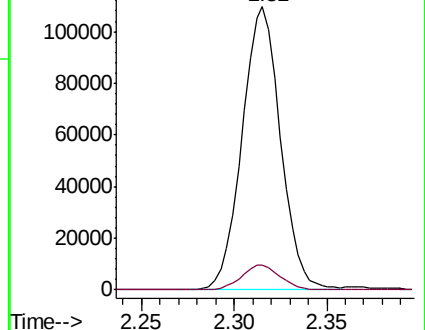
76 100

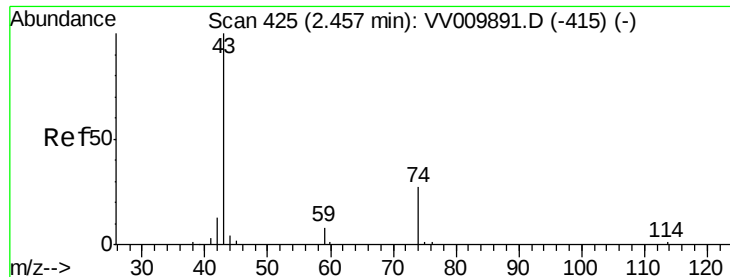
78 8.7 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VV009891.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV009891.D (-369) (-)





#15

Methyl Acetate

Concen: 27.455 ug/L

RT: 2.46 min Scan# 425

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

Instrument :

MSVOA_V

ClientSampleId :

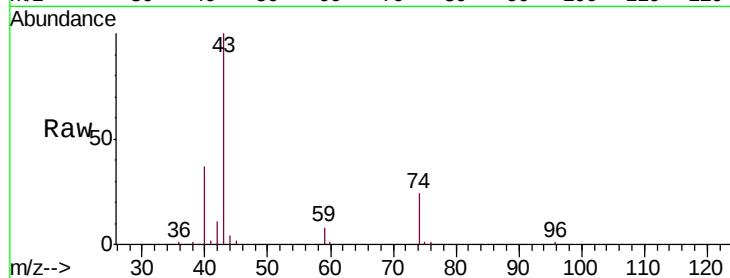
VSTD02564

Tgt Ion: 43 Resp: 35015

Ion Ratio Lower Upper

43 100

74 24.4 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VV009895.D (-322) (-)

Ion 74.00 (73.70 to 74.70): VV009895.D (-322) (-)

25000

20000

15000

10000

5000

0

Time-->

2.40 2.45 2.50 2.55

2.46

2.47

2.48

2.49

2.50

2.51

2.52

2.53

2.54

2.55

2.56

2.57

2.58

2.59

2.60

2.61

2.62

2.63

2.64

2.65

2.66

2.67

2.68

2.69

2.70

2.71

2.72

2.73

2.74

2.75

2.76

2.77

2.78

2.79

2.80

2.81

2.82

2.83

2.84

2.85

2.86

2.87

2.88

2.89

2.90

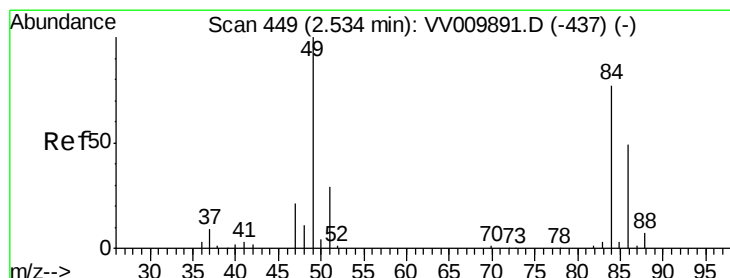
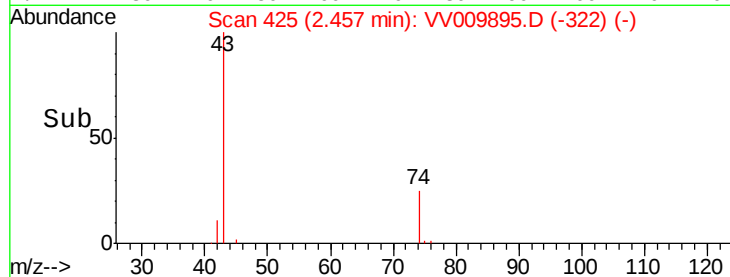
2.91

2.92

2.93

2.94

2.95



#16

Methylene chloride

Concen: 21.687 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

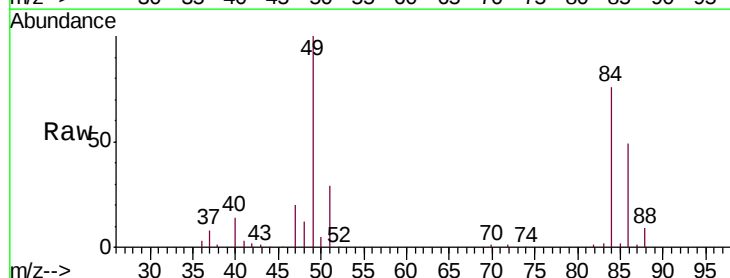
Tgt Ion: 84 Resp: 67919

Ion Ratio Lower Upper

84 100

49 131.8 90.4 167.8

86 64.1 44.0 81.6



Abundance Ion 84.00 (83.70 to 84.70): VV009895.D (-346) (-)

Ion 49.00 (48.70 to 49.70): VV009895.D (-346) (-)

Ion 86.00 (85.70 to 86.70): VV009895.D (-346) (-)

60000

40000

20000

0

Time-->

2.50 2.55 2.60

2.53

2.54

2.55

2.56

2.57

2.58

2.59

2.60

2.61

2.62

2.63

2.64

2.65

2.66

2.67

2.68

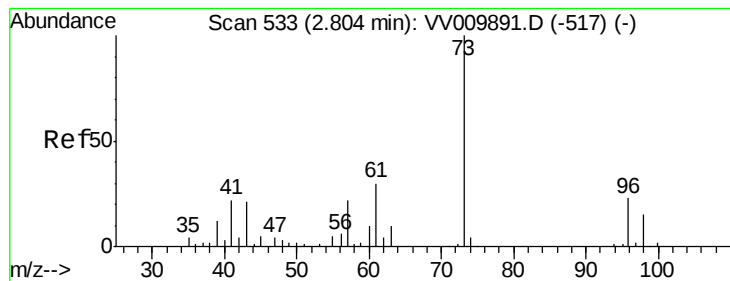
2.69

2.70

2.71

2.72

2.73



#17

Methyl tert-butyl Ether

Concen: 25.843 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

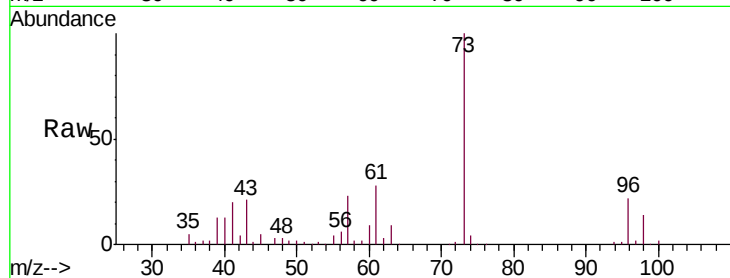
Tgt Ion: 73 Resp: 156878

Ion Ratio Lower Upper

73 100

43 20.4 17.0 25.6

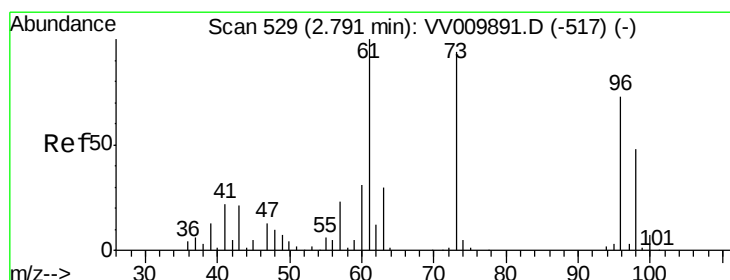
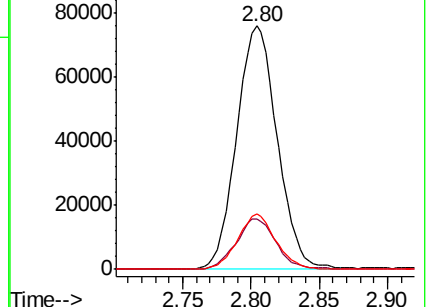
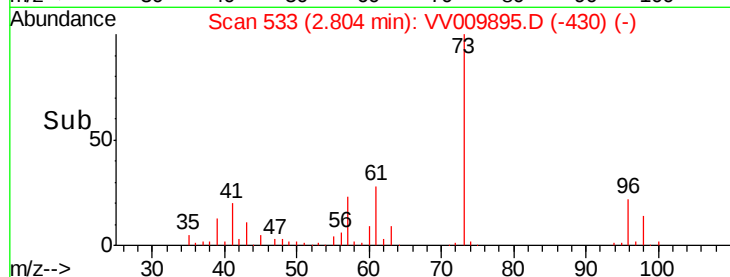
57 21.3 18.0 27.0



Abundance Ion 73.00 (72.70 to 73.70): VV009895.D (-430) (-)

Ion 43.00 (42.70 to 43.70): VV009895.D (-430) (-)

Ion 57.00 (56.70 to 57.70): VV009895.D (-430) (-)



#18

trans-1,2-Dichloroethene

Concen: 24.734 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

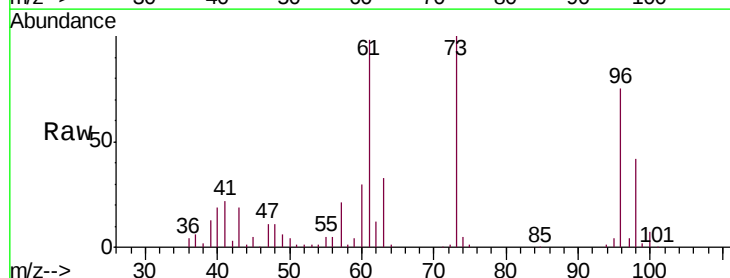
Tgt Ion: 96 Resp: 61633

Ion Ratio Lower Upper

96 100

61 132.0 96.8 179.8

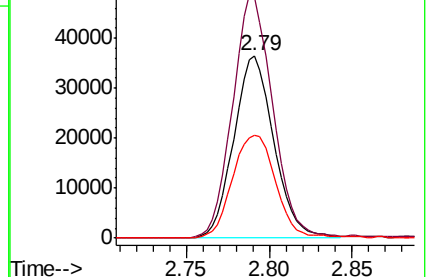
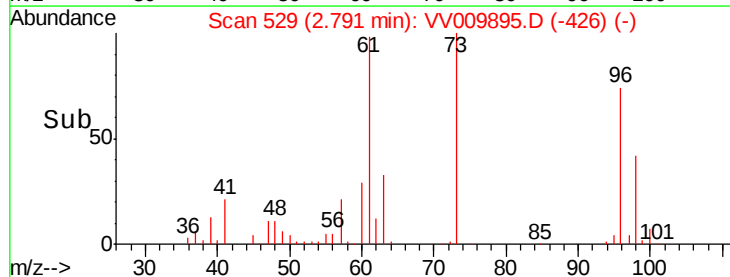
98 56.7 46.1 85.7

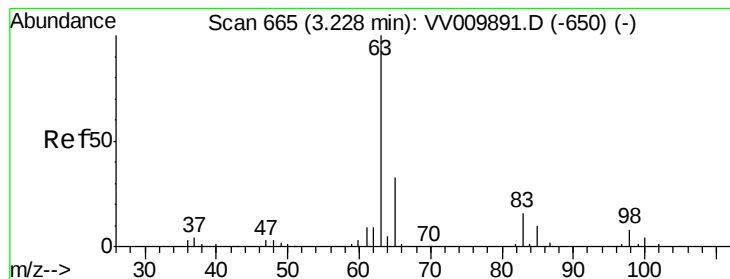


Abundance Ion 96.00 (95.70 to 96.70): VV009895.D (-426) (-)

Ion 61.00 (60.70 to 61.70): VV009895.D (-426) (-)

Ion 98.00 (97.70 to 98.70): VV009895.D (-426) (-)





#19

1,1-Dichloroethane

Concen: 24.796 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

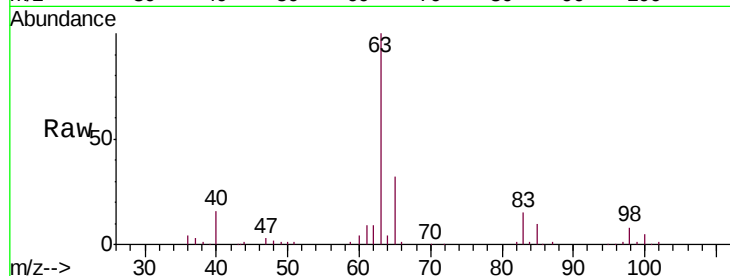
Tgt Ion: 63 Resp: 112996

Ion Ratio Lower Upper

63 100

65 32.2 23.2 43.0

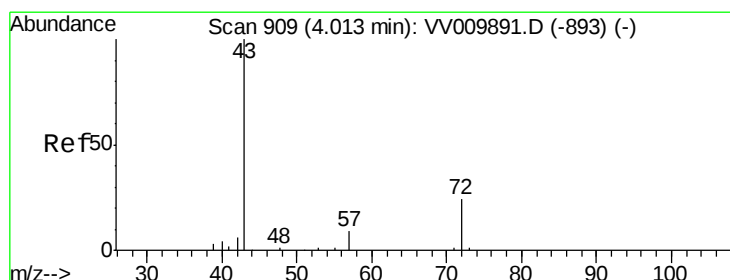
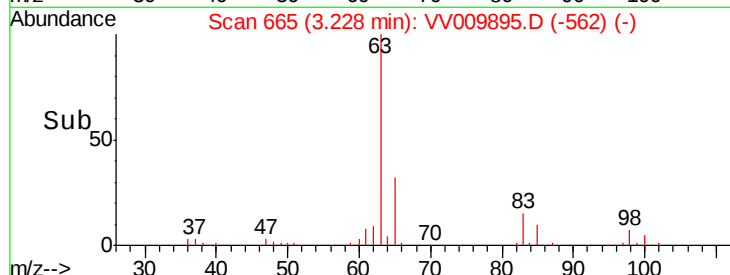
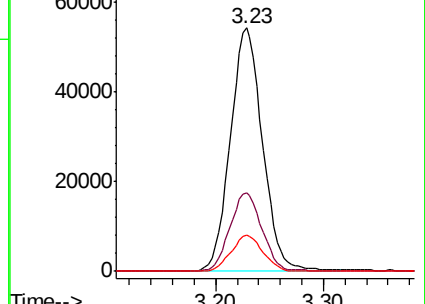
83 14.8 11.3 21.1



Abundance Ion 63.00 (62.70 to 63.70): VV009895.D (-650) (-)

Ion 65.00 (64.70 to 65.70): VV009895.D (-650) (-)

Ion 83.00 (82.70 to 83.70): VV009895.D (-650) (-)



#21

2-Butanone

Concen: 55.573 ug/L

RT: 4.01 min Scan# 908

Delta R.T. -0.00 min

Lab File: VV009895.D

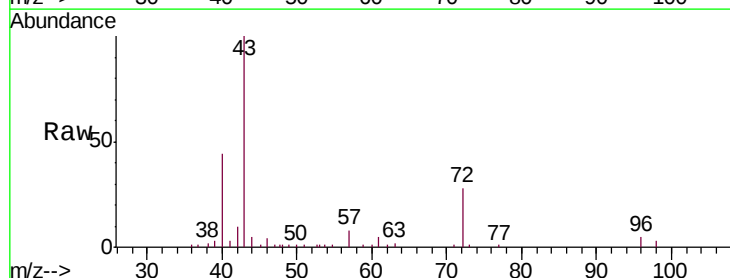
Acq: 26 Mar 2019 15:08

Tgt Ion: 43 Resp: 53890

Ion Ratio Lower Upper

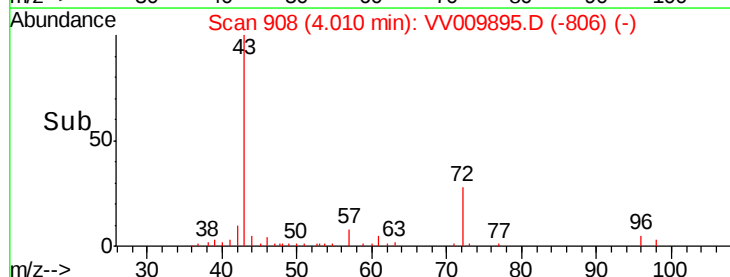
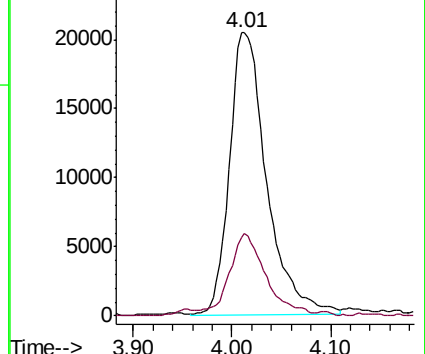
43 100

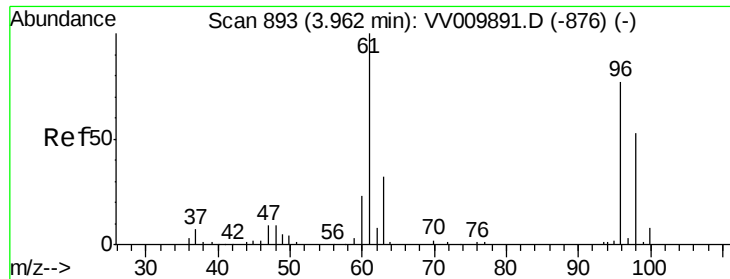
72 24.6 11.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VV009895.D (-806) (-)

Ion 72.00 (71.70 to 72.70): VV009895.D (-806) (-)



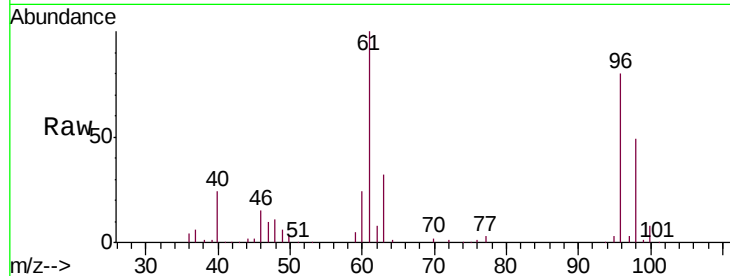


#22

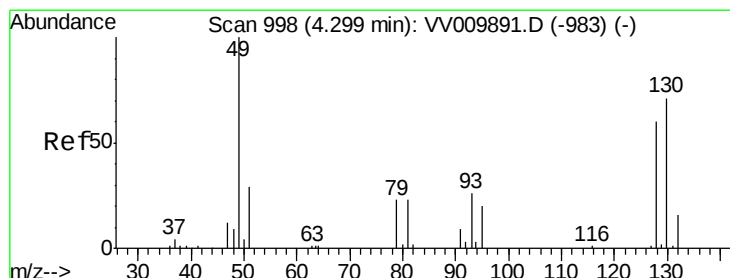
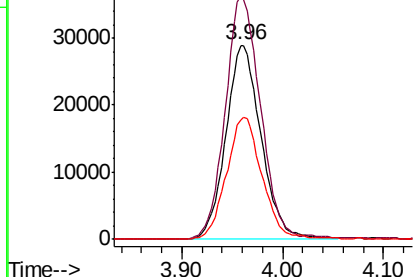
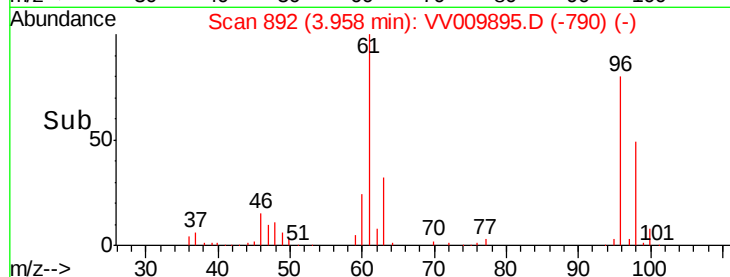
cis-1,2-Dichloroethene
 Concen: 25.605 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. -0.00 min
 Lab File: VV009895.D
 Acq: 26 Mar 2019 15:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

Tgt Ion: 96 Resp: 70451
 Ion Ratio Lower Upper
 96 100
 61 125.4 91.4 169.8
 98 61.8 48.0 89.2



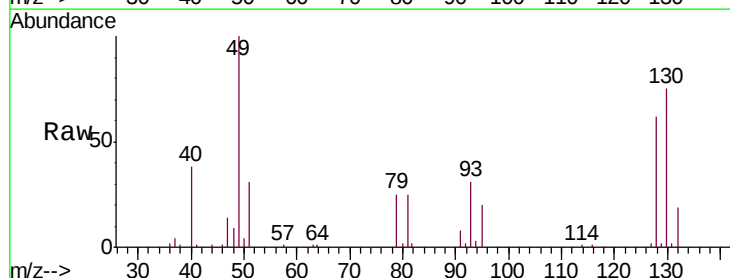
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



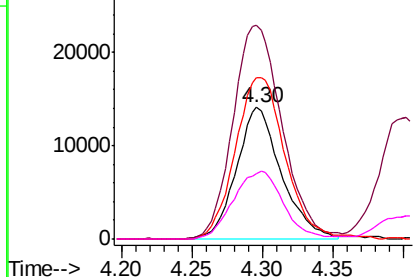
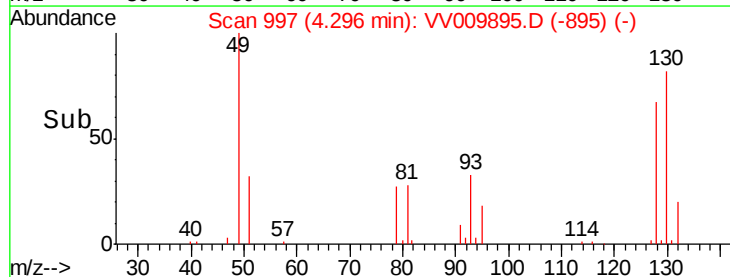
#23

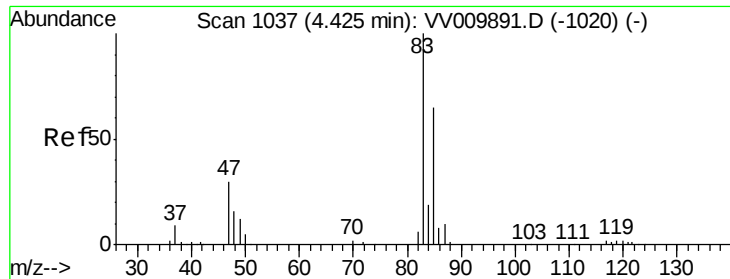
Bromochloromethane
 Concen: 24.738 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. -0.00 min
 Lab File: VV009895.D
 Acq: 26 Mar 2019 15:08

Tgt Ion: 128 Resp: 31429
 Ion Ratio Lower Upper
 128 100
 49 162.2 118.2 219.6
 130 122.4 83.4 154.8
 51 50.1 39.4 59.2



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VV0
 Ion 130.00 (129.70 to 130.70): V
 Ion 51.00 (50.70 to 51.70): VV0

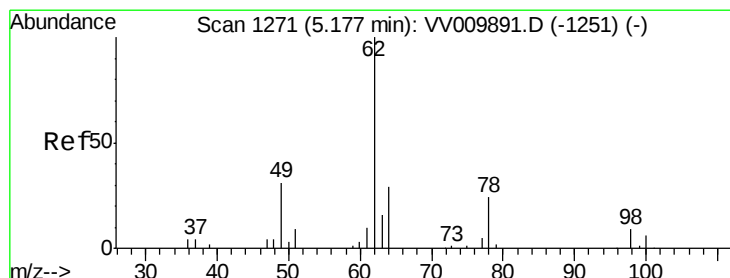
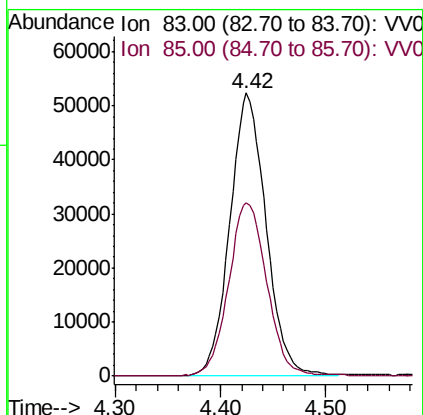
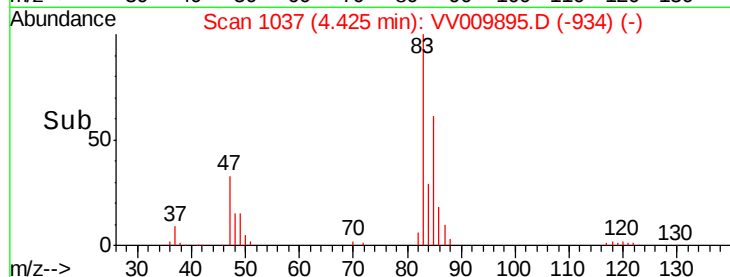
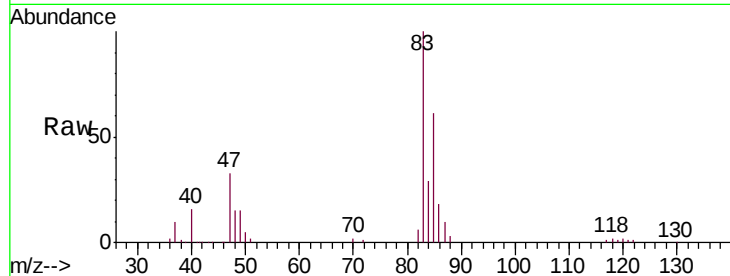




#25
Chloroform
Concen: 24.740 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV009895.D
Acq: 26 Mar 2019 15:08

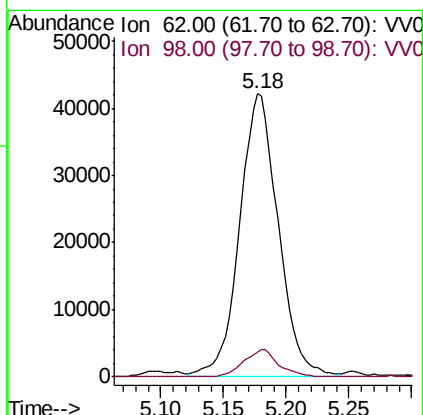
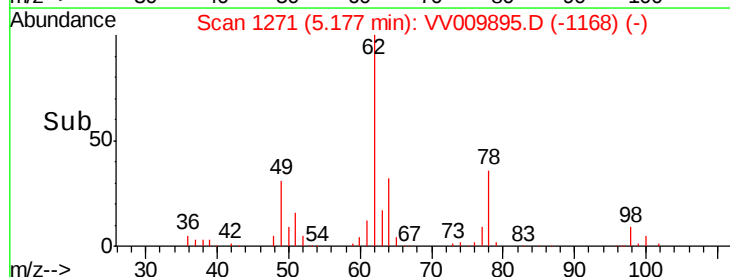
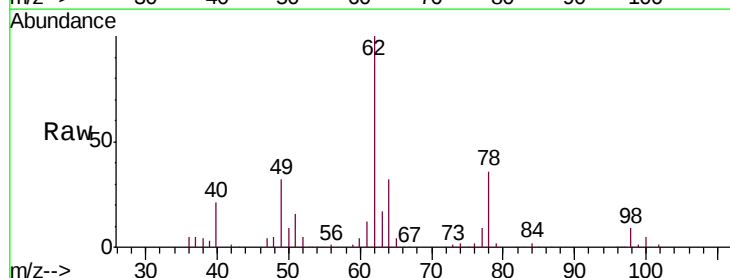
Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

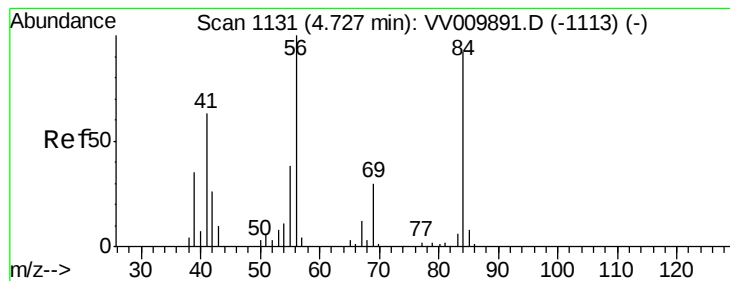
Tgt Ion: 83 Resp: 124654
Ion Ratio Lower Upper
83 100
85 63.9 46.1 85.7



#27
1,2-Dichloroethane
Concen: 25.414 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV009895.D
Acq: 26 Mar 2019 15:08

Tgt Ion: 62 Resp: 90727
Ion Ratio Lower Upper
62 100
98 9.0 7.2 10.8





#30

Cyclohexane

Concen: 25.691 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

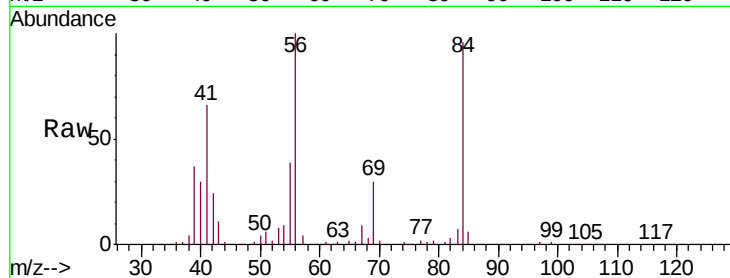
Tgt Ion: 56 Resp: 98833

Ion Ratio Lower Upper

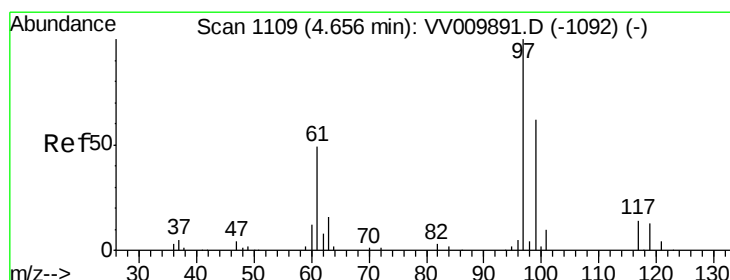
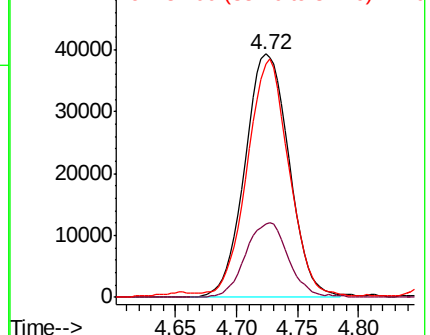
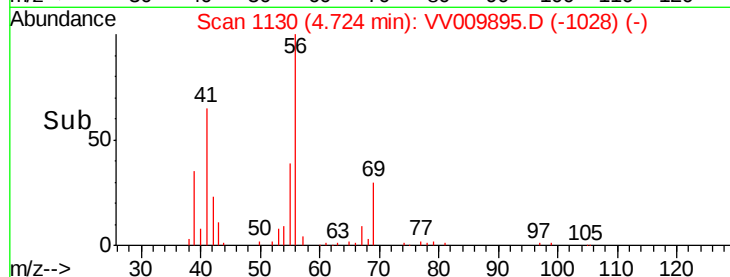
56 100

69 29.4 24.5 36.7

84 92.4 75.6 113.4



Abundance Ion 56.00 (55.70 to 56.70): VV009895.D (-1028) (-)



#31

1,1,1-Trichloroethane

Concen: 24.963 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

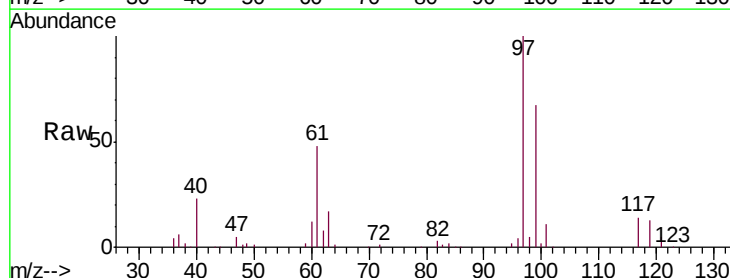
Tgt Ion: 97 Resp: 95316

Ion Ratio Lower Upper

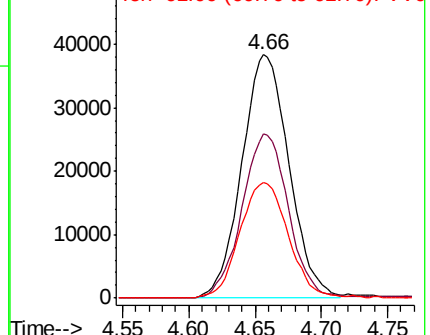
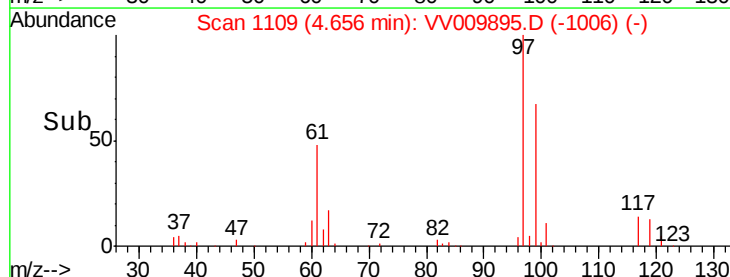
97 100

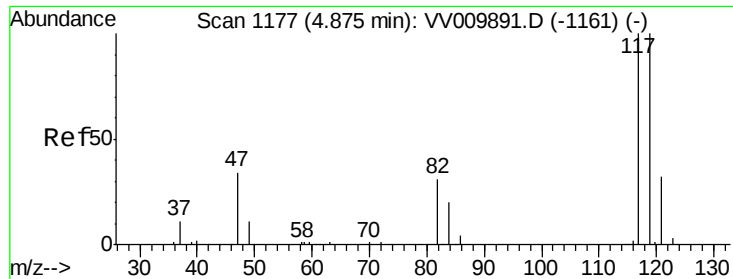
99 66.3 51.5 77.3

61 48.6 39.4 59.0



Abundance Ion 97.00 (96.70 to 97.70): VV009895.D (-1006) (-)





#32

Carbon tetrachloride

Concen: 25.862 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

Instrument :

MSVOA_V

ClientSampleId :

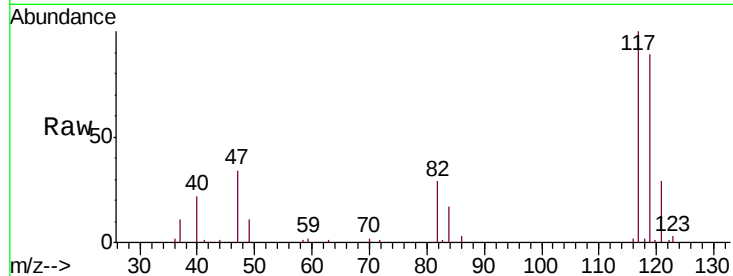
VSTD02564

Tgt Ion:117 Resp: 85830

Ion Ratio Lower Upper

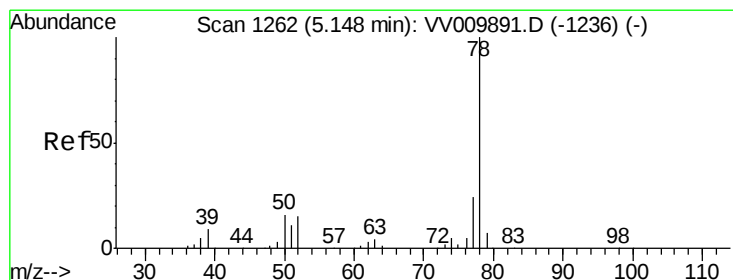
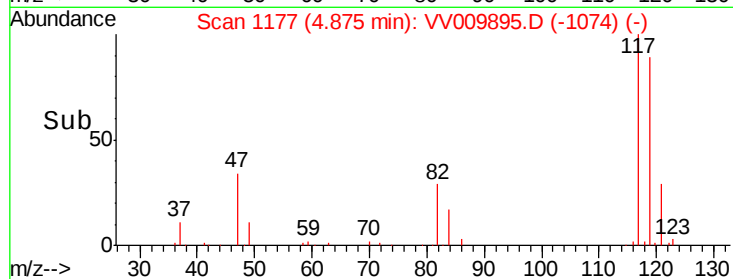
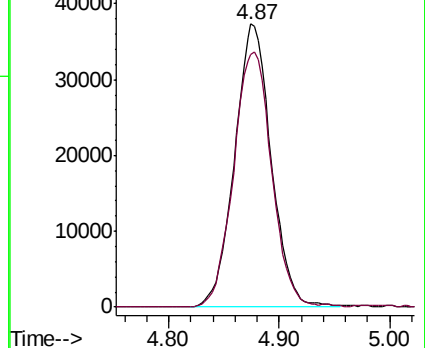
117 100

119 93.7 78.1 117.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 24.713 ug/L

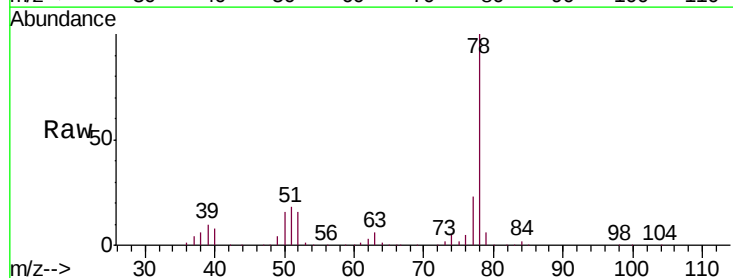
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

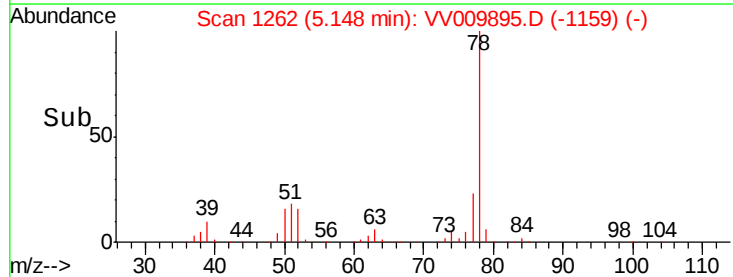
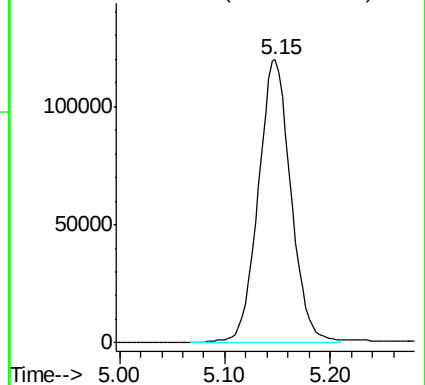
Lab File: VV009895.D

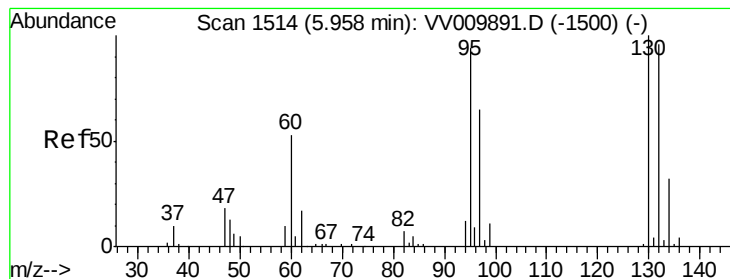
Acq: 26 Mar 2019 15:08

Tgt Ion: 78 Resp: 258919



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 24.643 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

Instrument :

MSVOA_V

ClientSampled :

VSTD02564

Tgt Ion: 95 Resp: 68104

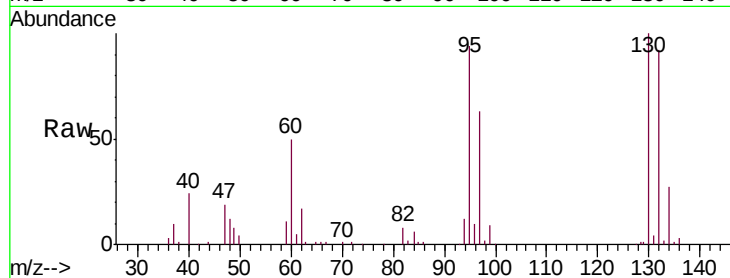
Ion Ratio Lower Upper

95 100

97 63.6 46.3 85.9

132 94.2 69.3 128.7

130 100.6 69.5 129.1

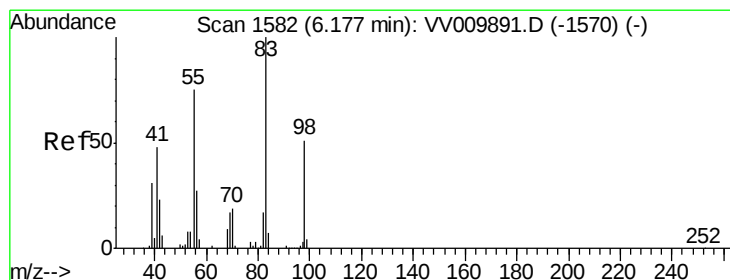
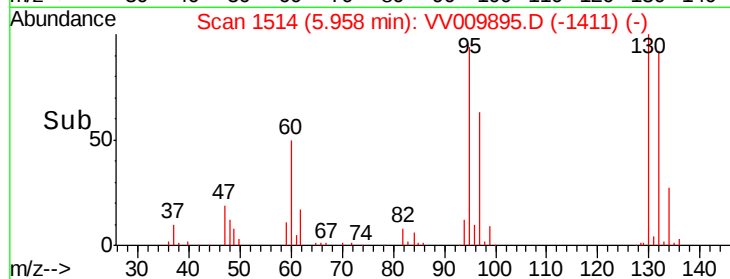
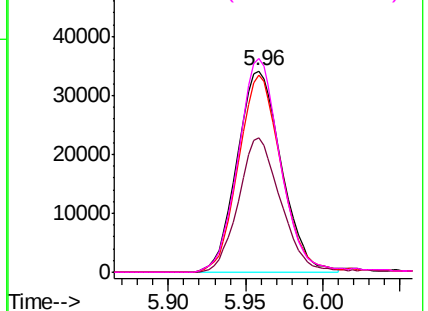


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 25.443 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

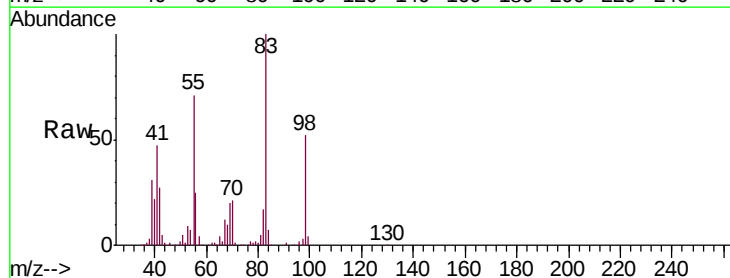
Tgt Ion: 83 Resp: 110321

Ion Ratio Lower Upper

83 100

55 73.2 57.3 85.9

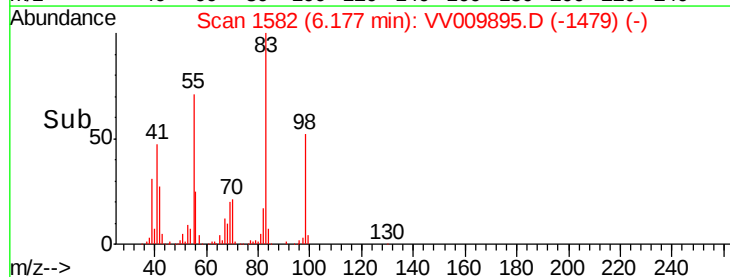
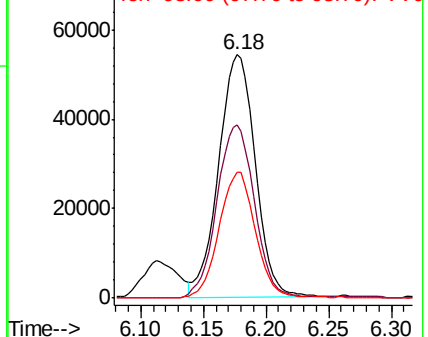
98 50.8 39.2 58.8

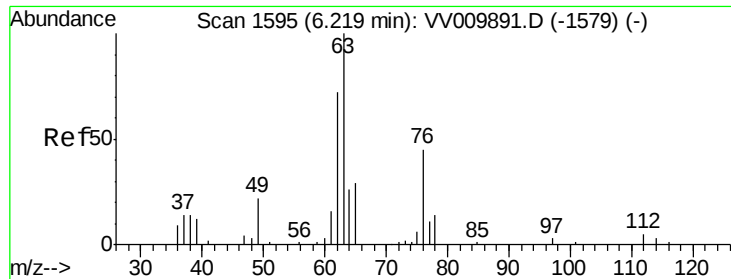


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

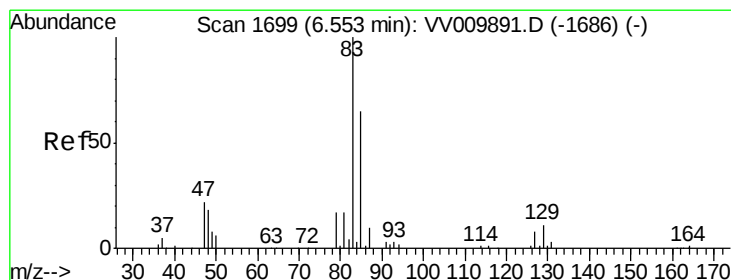
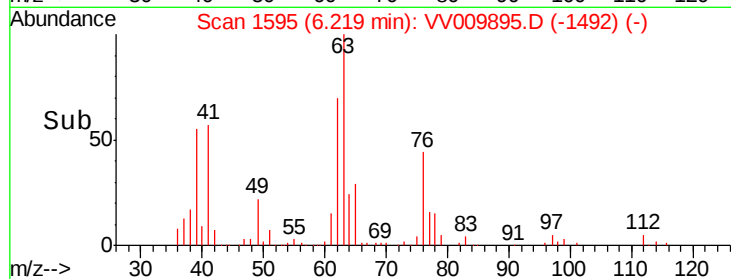
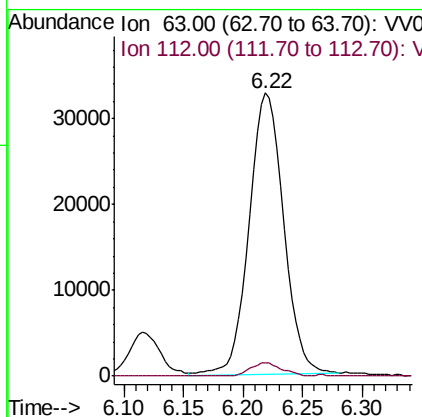
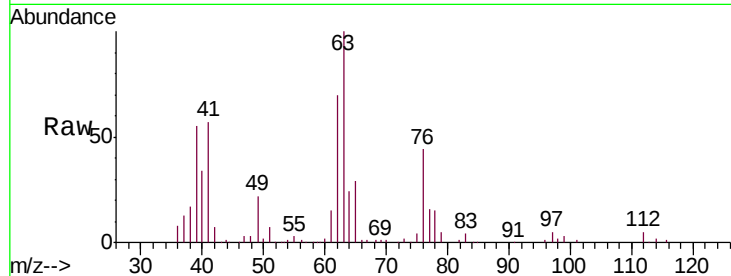




#40
 1,2-Dichloropropane
 Concen: 25.264 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV009895.D
 Acq: 26 Mar 2019 15:08

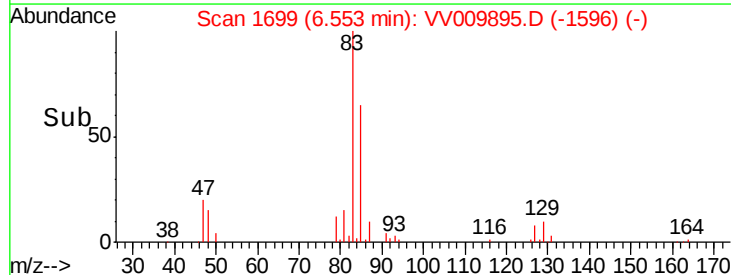
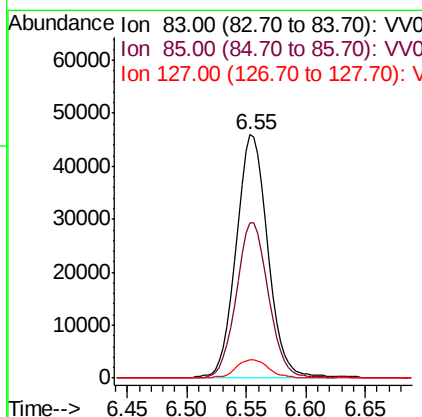
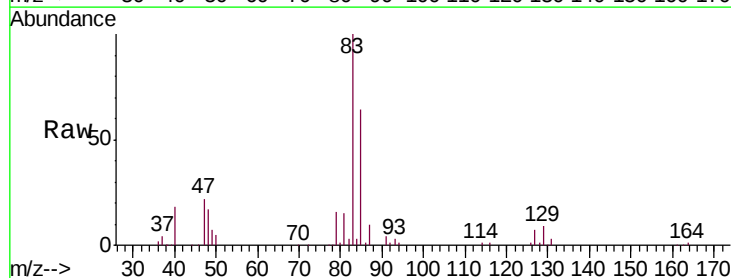
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

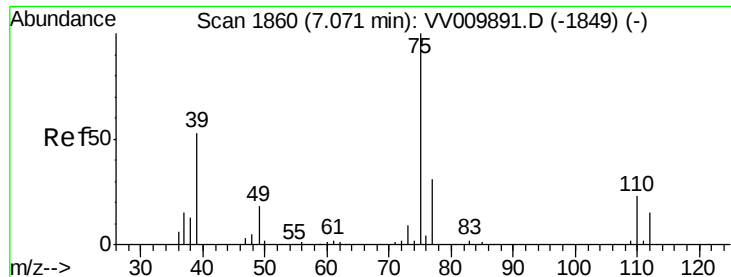
Tgt Ion: 63 Resp: 66142
 Ion Ratio Lower Upper
 63 100
 112 4.3 2.1 3.1#



#41
 Bromodichloromethane
 Concen: 26.104 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV009895.D
 Acq: 26 Mar 2019 15:08

Tgt Ion: 83 Resp: 84990
 Ion Ratio Lower Upper
 83 100
 85 64.0 45.6 84.8
 127 7.5 6.2 9.4



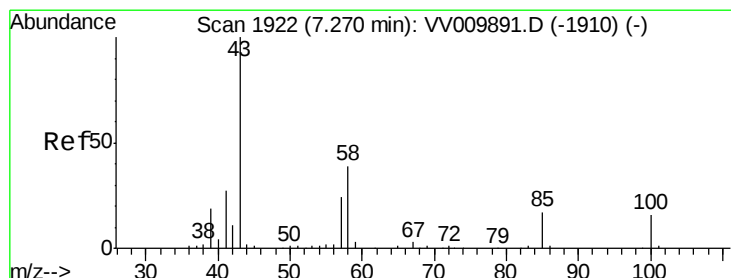
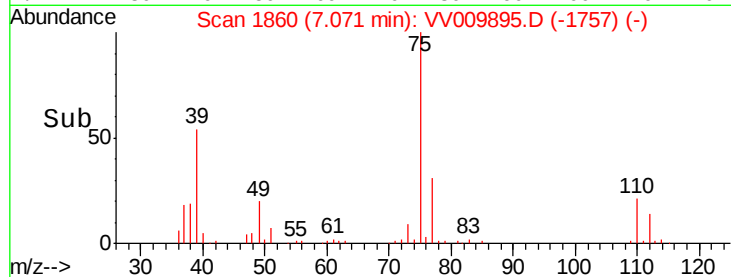
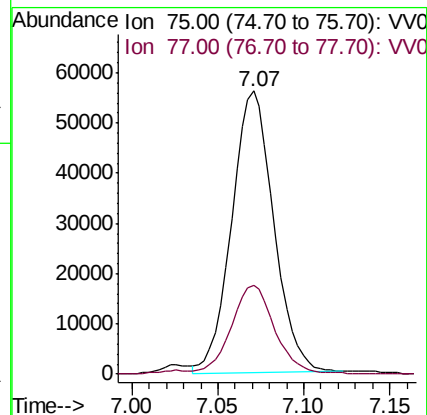
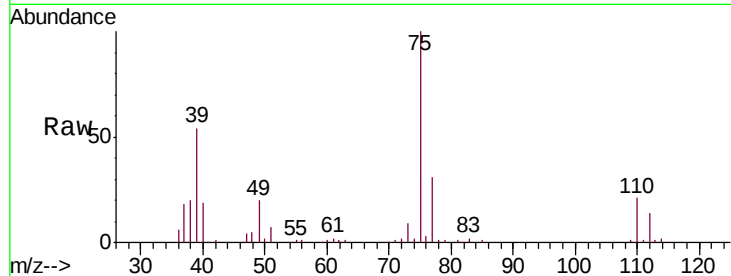


#42

cis-1,3-Dichloropropene
Concen: 24.913 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VV009895.D
Acq: 26 Mar 2019 15:08

Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

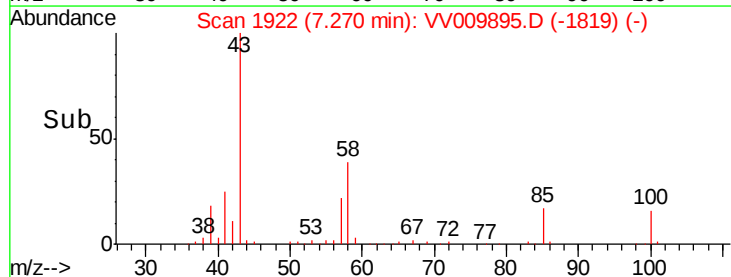
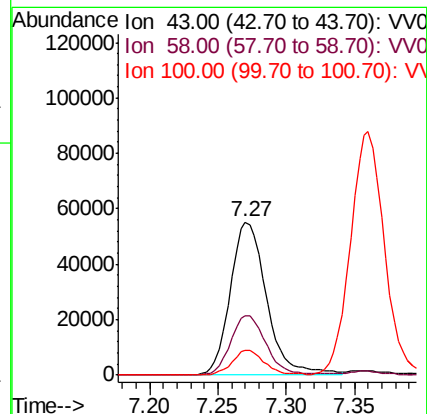
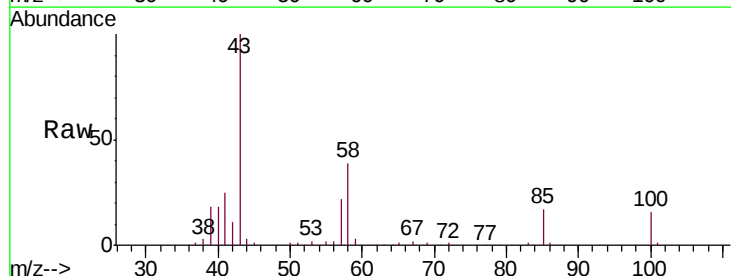
Tgt Ion: 75 Resp: 95091
Ion Ratio Lower Upper
75 100
77 31.3 21.8 40.6

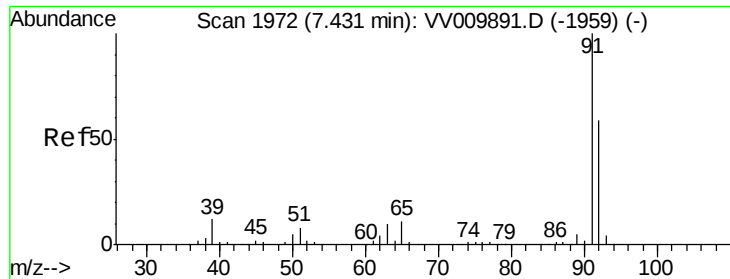


#43

4-Methyl-2-pentanone
Concen: 54.924 ug/L
RT: 7.27 min Scan# 1922
Delta R.T. 0.00 min
Lab File: VV009895.D
Acq: 26 Mar 2019 15:08

Tgt Ion: 43 Resp: 102613
Ion Ratio Lower Upper
43 100
58 37.6 29.4 44.2
100 14.3 12.2 18.4





#44

Toluene

Concen: 24.682 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

Instrument :

MSVOA_V

ClientSampleId :

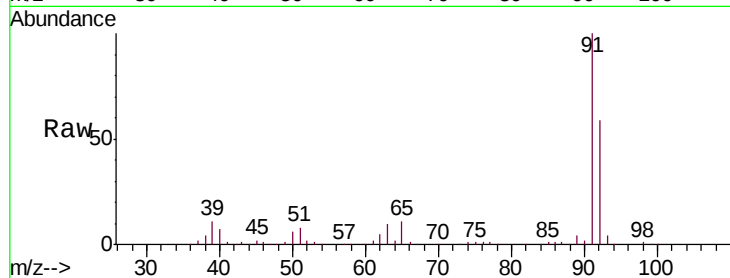
VSTD02564

Tgt Ion: 91 Resp: 285087

Ion Ratio Lower Upper

91 100

92 58.5 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VV009895.D (-1959) (-)

Ion 92.00 (91.70 to 92.70): VV009895.D (-1959) (-)

7.43

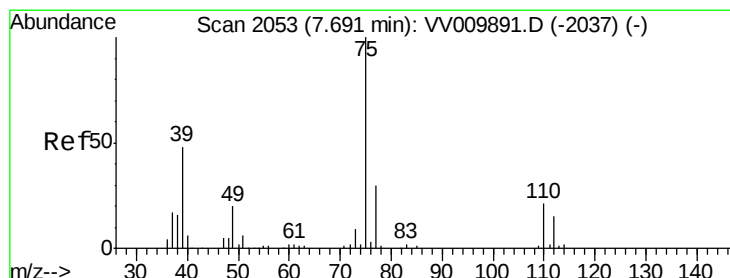
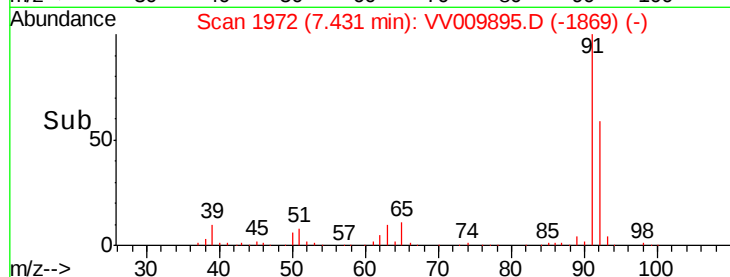
150000

100000

50000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 26.941 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV009895.D

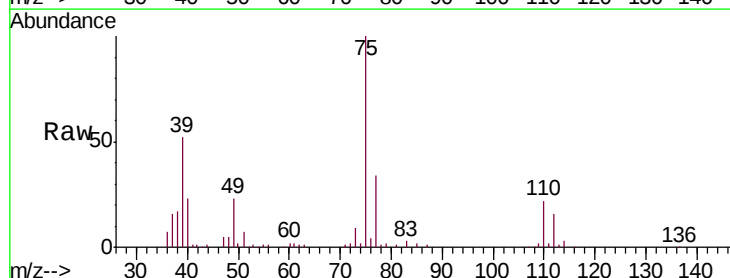
Acq: 26 Mar 2019 15:08

Tgt Ion: 75 Resp: 84179

Ion Ratio Lower Upper

75 100

77 33.9 20.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VV009895.D (-2037) (-)

Ion 77.00 (76.70 to 77.70): VV009895.D (-2037) (-)

7.69

50000

40000

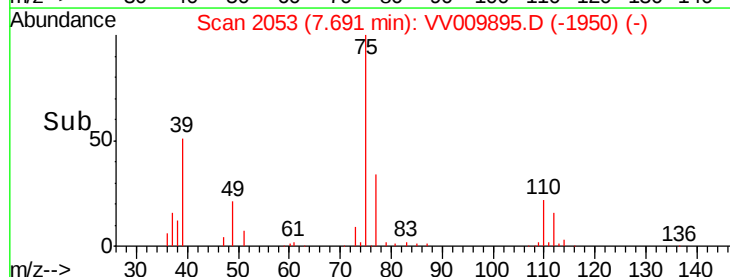
30000

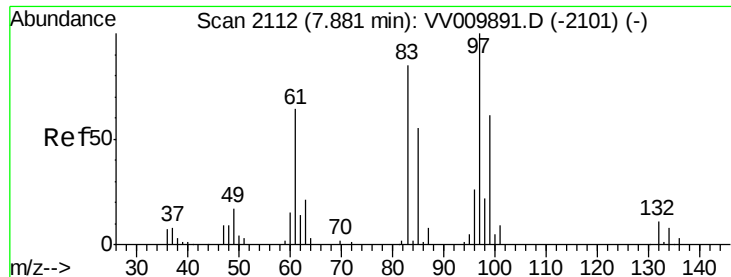
20000

10000

0

Time-->

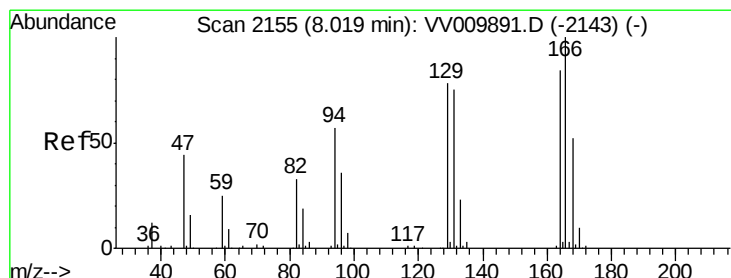
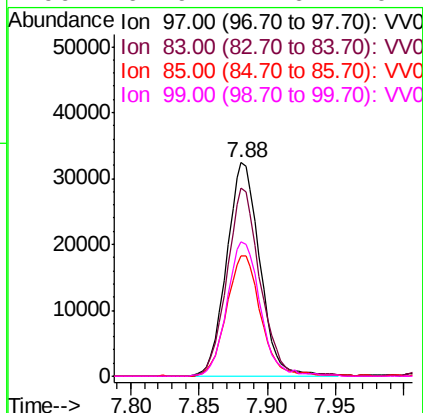
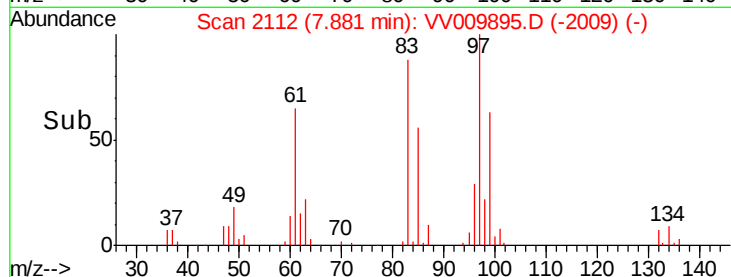
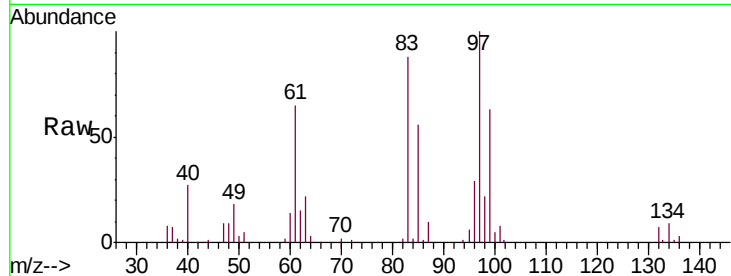




#46
 1,1,2-Trichloroethane
 Concen: 25.393 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV009895.D
 Acq: 26 Mar 2019 15:08

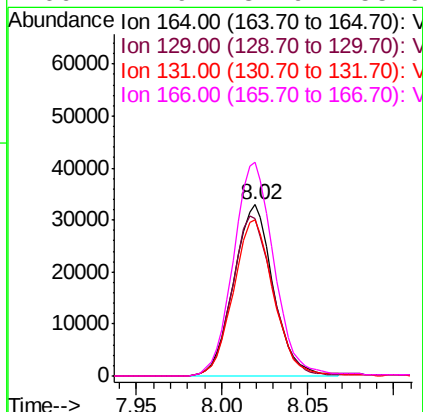
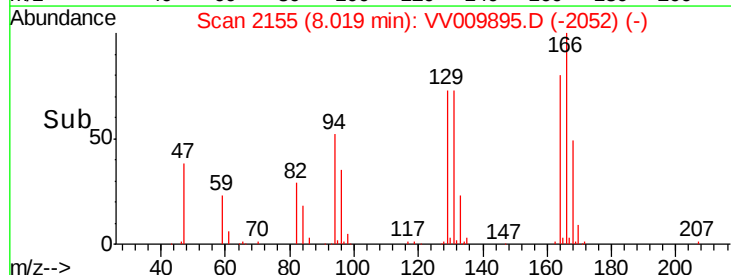
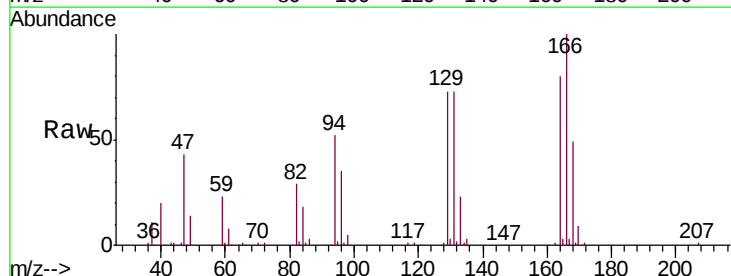
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

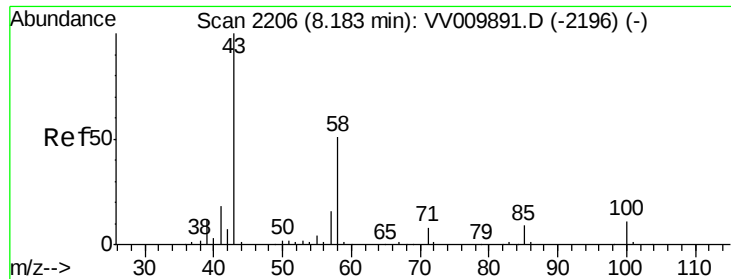
Tgt Ion:	97	Resp:	54982
Ion	Ratio	Lower	Upper
97	100		
83	88.2	59.6	110.8
85	56.4	39.2	72.8
99	62.9	42.6	79.2



#47
 Tetrachloroethene
 Concen: 24.305 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VV009895.D
 Acq: 26 Mar 2019 15:08

Tgt Ion:	164	Resp:	53003
Ion	Ratio	Lower	Upper
164	100		
129	91.8	64.9	120.5
131	91.4	62.0	115.2
166	124.9	82.9	153.9

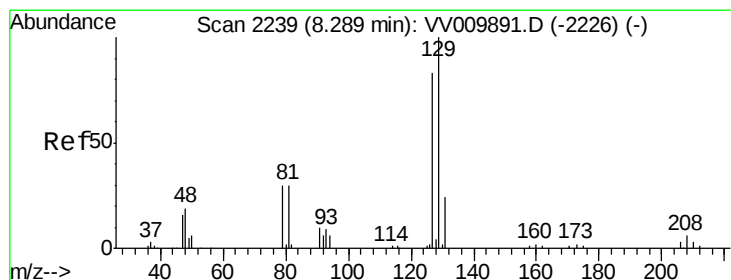
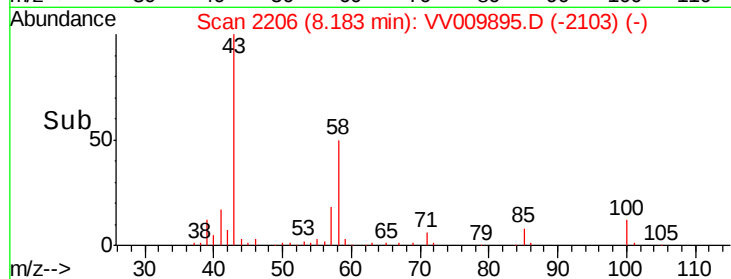
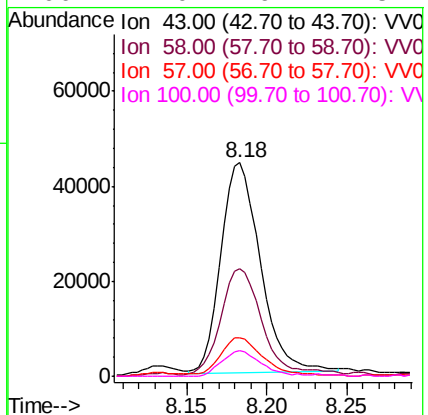
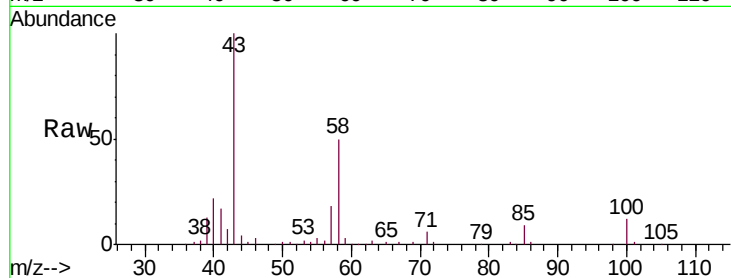




#49
2-Hexanone
Concen: 59.200 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV009895.D
Acq: 26 Mar 2019 15:08

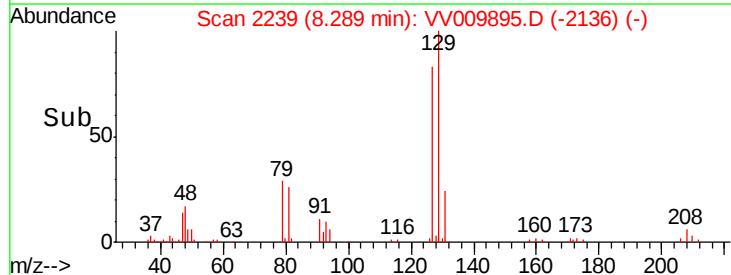
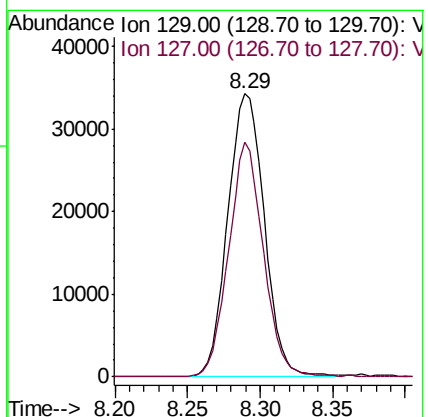
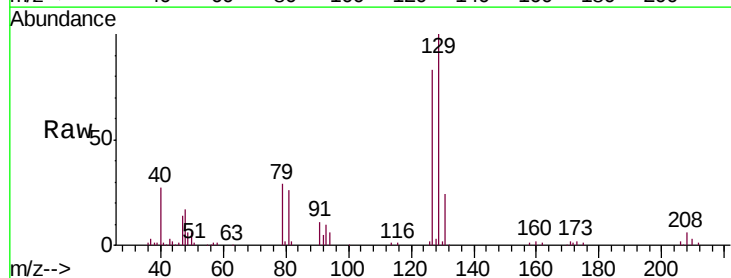
Instrument :
MSVOA_V
ClientSampled :
VSTD02564

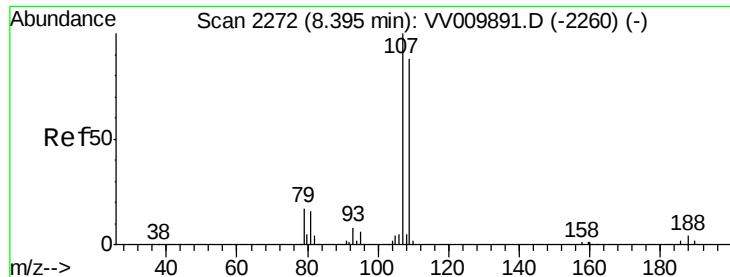
Tgt Ion: 43 Resp: 74751
Ion Ratio Lower Upper
43 100
58 53.6 42.0 63.0
57 19.3 12.9 19.3#
100 12.0 9.1 13.7



#50
Dibromochloromethane
Concen: 26.787 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV009895.D
Acq: 26 Mar 2019 15:08

Tgt Ion: 129 Resp: 60142
Ion Ratio Lower Upper
129 100
127 82.8 57.9 107.5





#51

1,2-Dibromoethane

Concen: 26.082 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

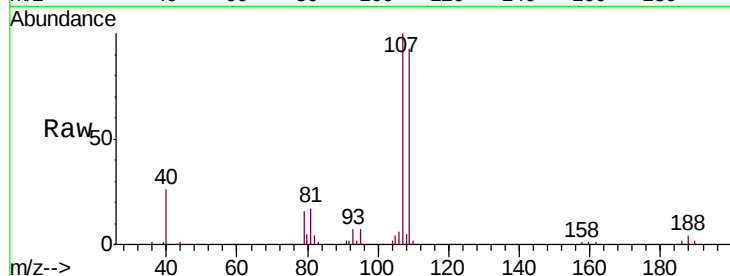
Tgt Ion:107 Resp: 54836

Ion Ratio Lower Upper

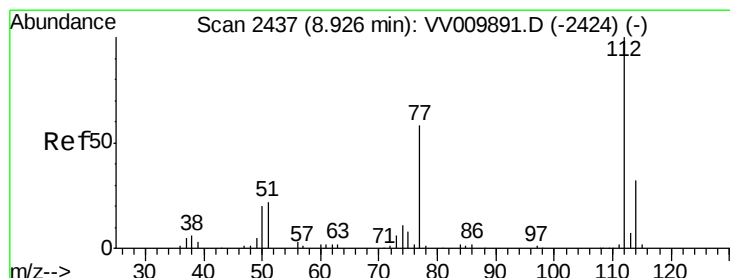
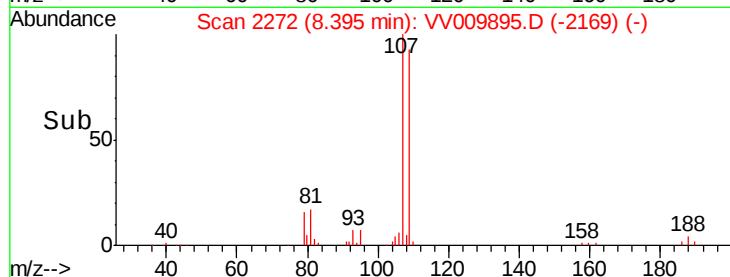
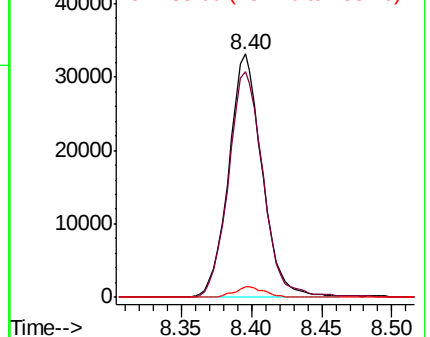
107 100

109 92.9 61.8 114.8

188 4.1 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: 24.693 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

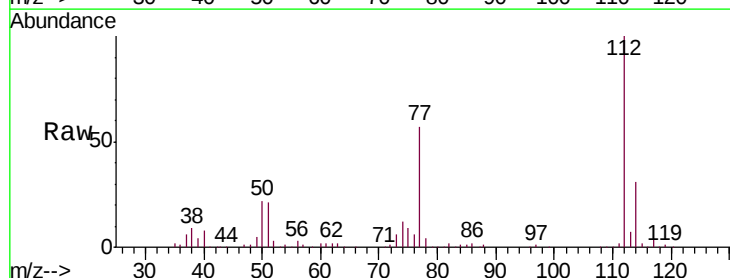
Tgt Ion:112 Resp: 189868

Ion Ratio Lower Upper

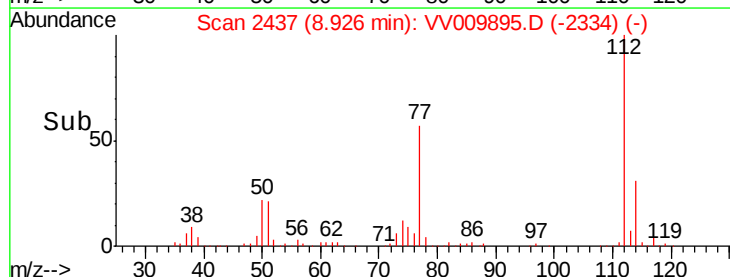
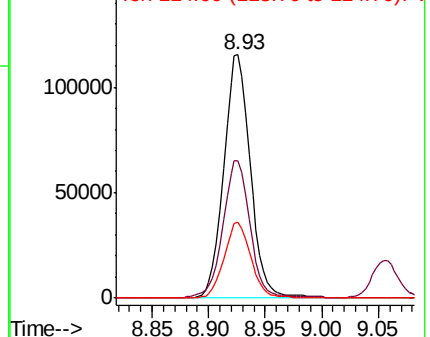
112 100

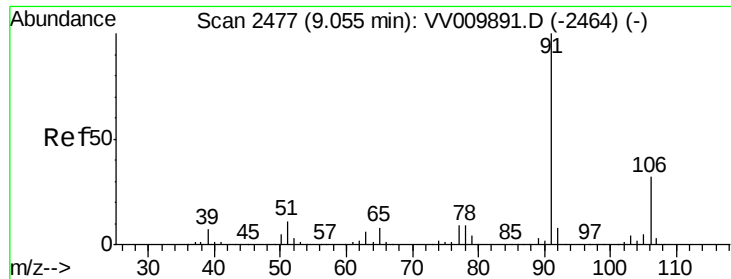
77 56.7 46.8 70.2

114 31.2 22.3 41.5



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: 24.805 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

Instrument :

MSVOA_V

ClientSampleId :

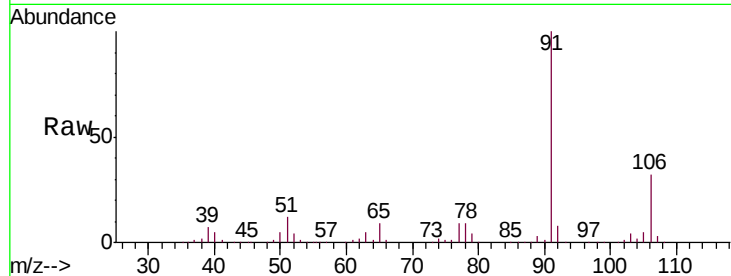
VSTD02564

Tgt Ion: 91 Resp: 316043

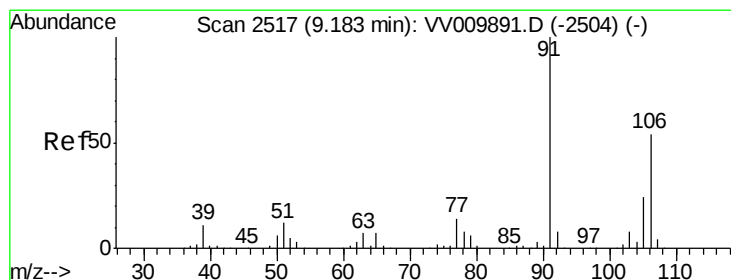
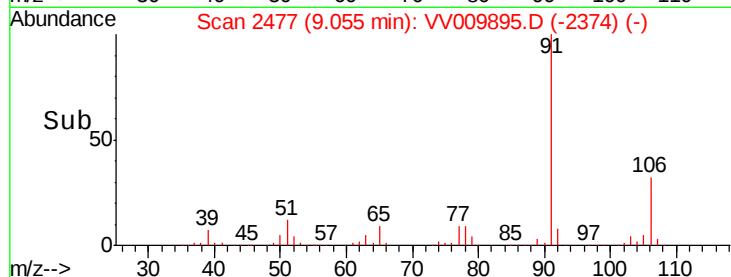
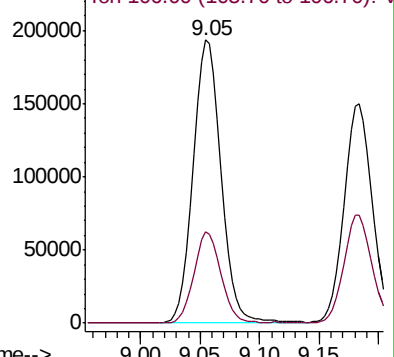
Ion Ratio Lower Upper

91 100

106 32.2 22.3 41.3



Abundance Ion 91.00 (90.70 to 91.70): VV009895.D (-2464) (-)



#54

m,p-Xylene

Concen: 24.351 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV009895.D

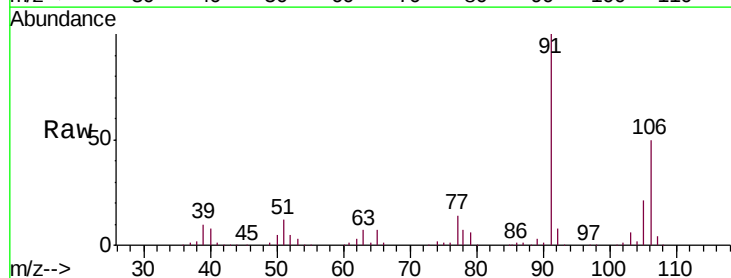
Acq: 26 Mar 2019 15:08

Tgt Ion: 106 Resp: 121855

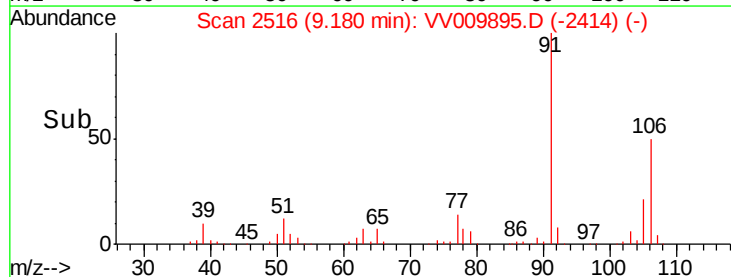
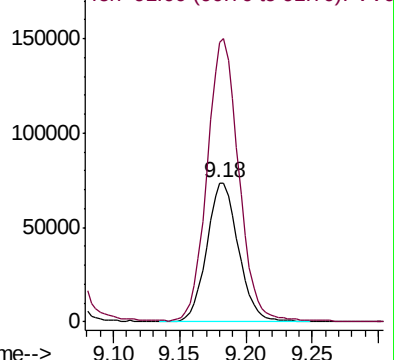
Ion Ratio Lower Upper

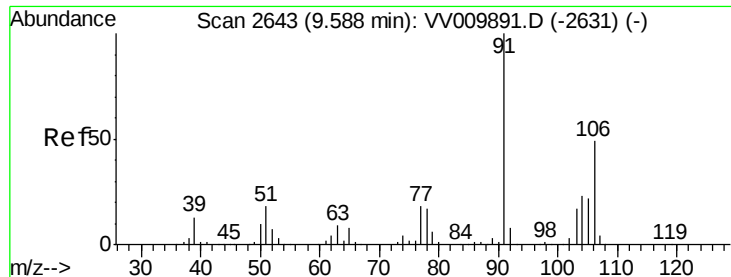
106 100

91 201.0 130.0 241.4



Abundance Ion 106.00 (105.70 to 106.70): VV009895.D (-2517) (-)





#55

o-xylene

Concen: 25.092 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

Instrument :

MSVOA_V

ClientSampleId :

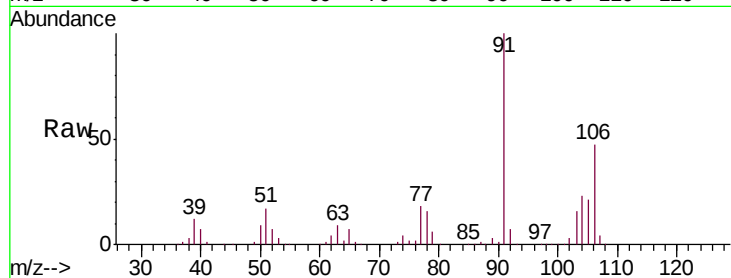
VSTD02564

Tgt Ion:106 Resp: 121879

Ion Ratio Lower Upper

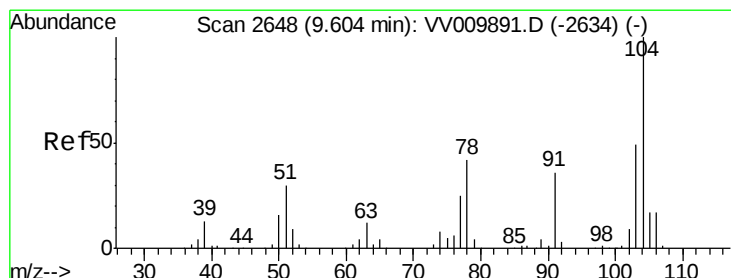
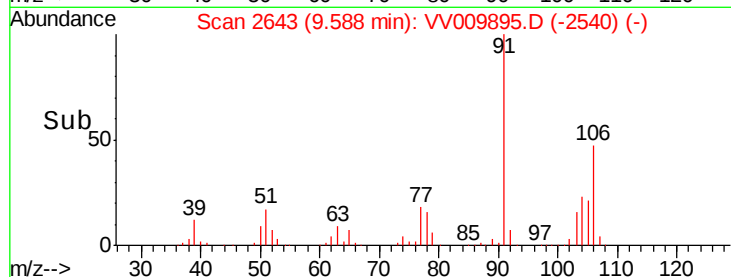
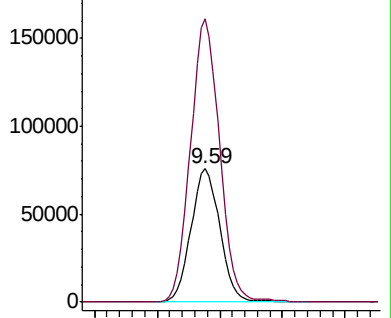
106 100

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: 24.328 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV009895.D

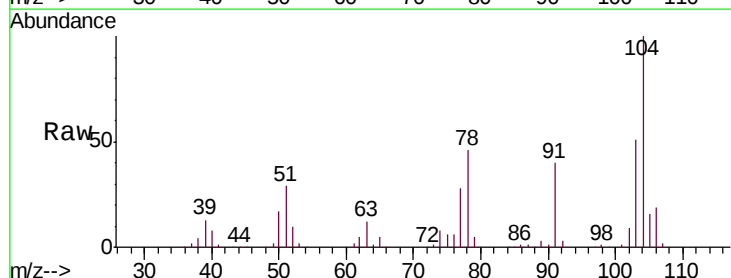
Acq: 26 Mar 2019 15:08

Tgt Ion:104 Resp: 202969

Ion Ratio Lower Upper

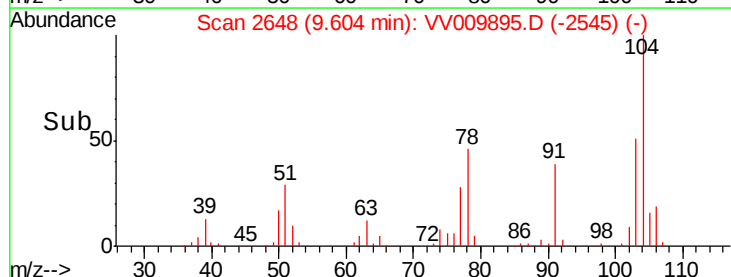
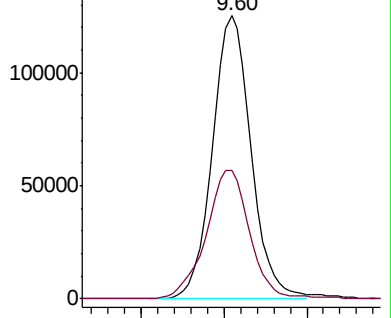
104 100

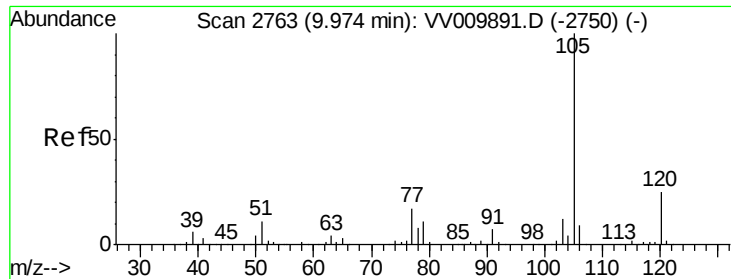
78 45.6 29.3 54.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 25.230 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

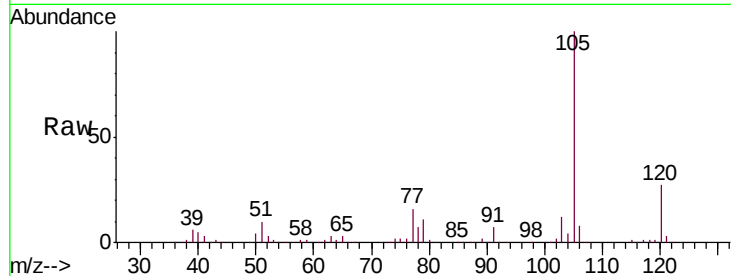
Tgt Ion:105 Resp: 317919

Ion Ratio Lower Upper

105 100

120 26.0 20.8 31.2

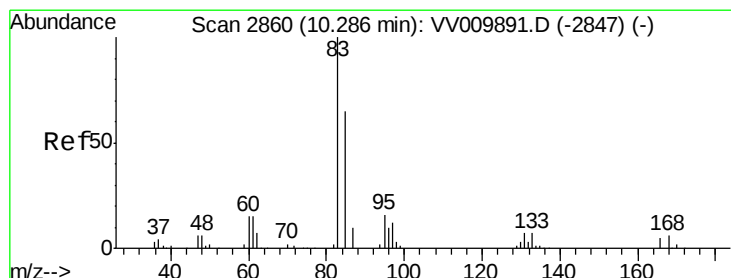
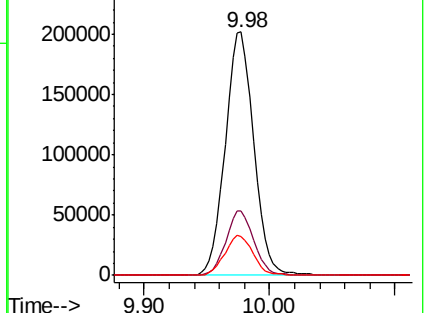
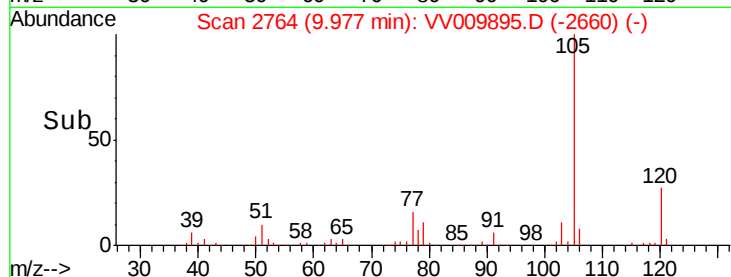
77 16.4 13.0 19.4



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: 25.957 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

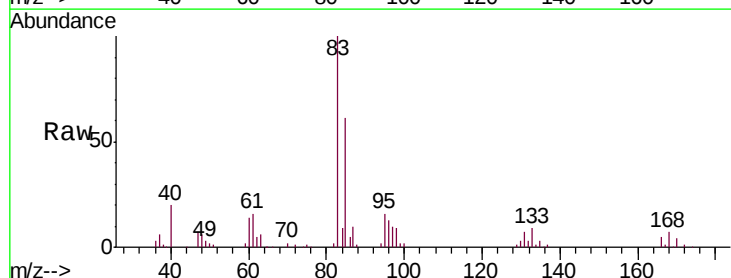
Tgt Ion: 83 Resp: 75757

Ion Ratio Lower Upper

83 100

85 61.3 45.8 85.0

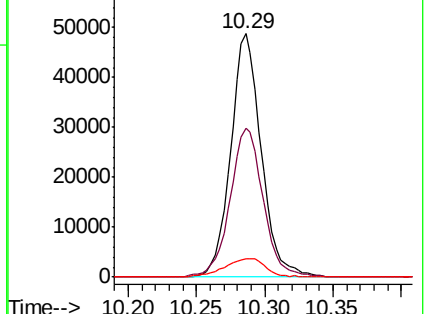
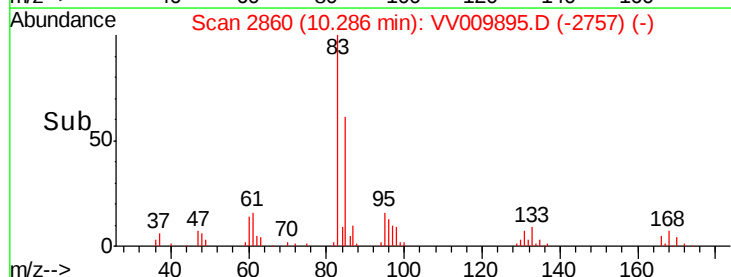
131 7.3 6.2 9.4

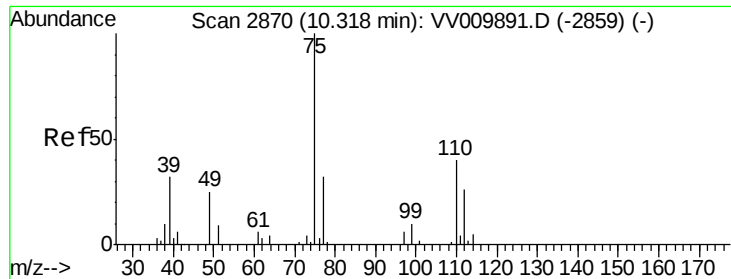


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

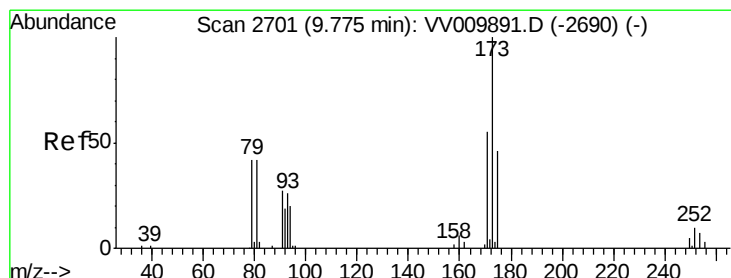
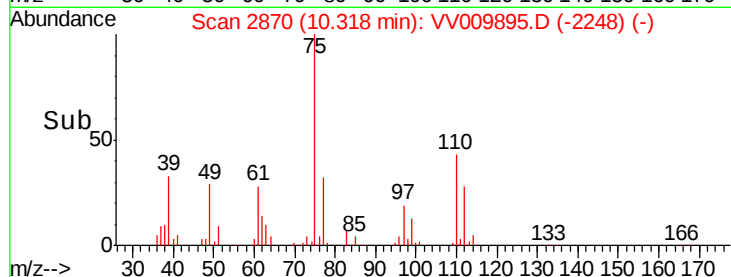
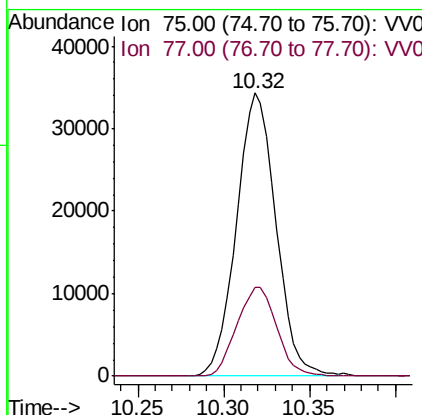
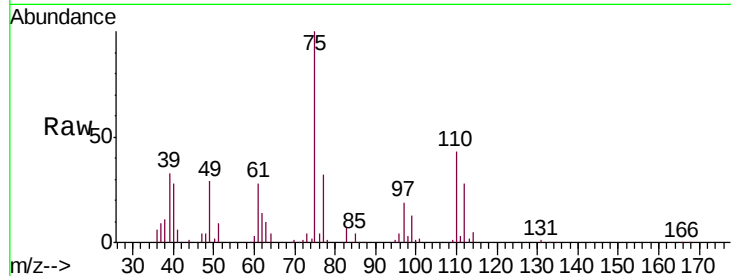




#59
 1,2,3-Trichloropropane
 Concen: 25.971 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VV009895.D
 Acq: 26 Mar 2019 15:08

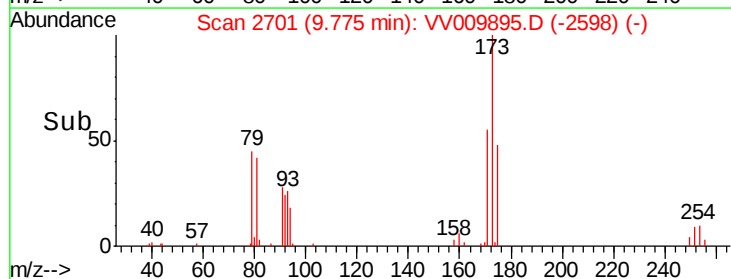
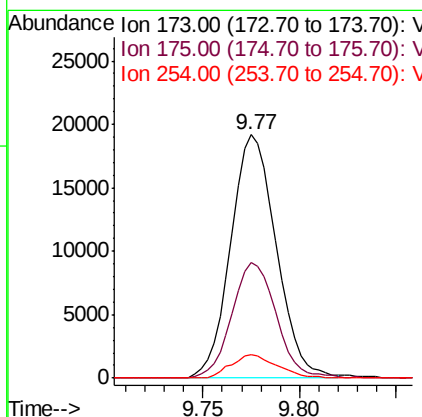
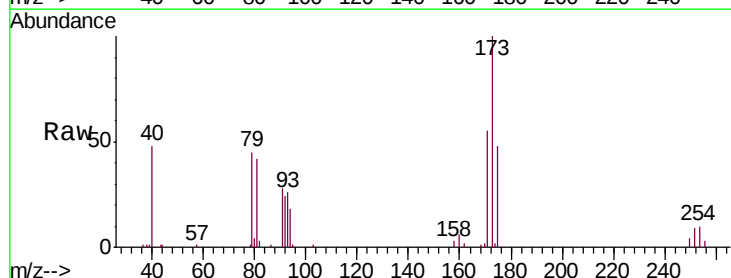
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

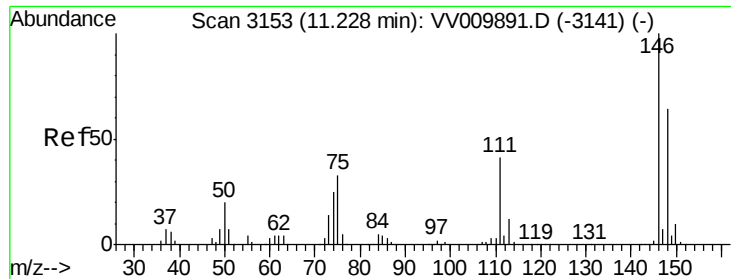
Tgt Ion: 75 Resp: 54706
 Ion Ratio Lower Upper
 75 100
 77 31.7 26.2 39.2



#62
 Bromoform
 Concen: 26.901 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. 0.00 min
 Lab File: VV009895.D
 Acq: 26 Mar 2019 15:08

Tgt Ion: 173 Resp: 31406
 Ion Ratio Lower Upper
 173 100
 175 46.3 37.8 56.8
 254 9.8 6.6 9.8





#63

1,3-Dichlorobenzene

Concen: 24.775 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

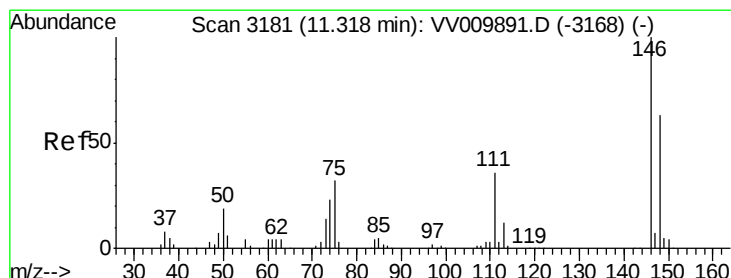
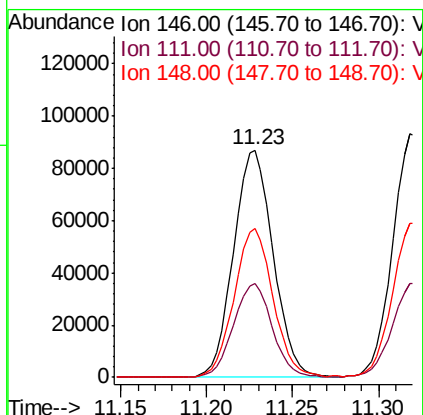
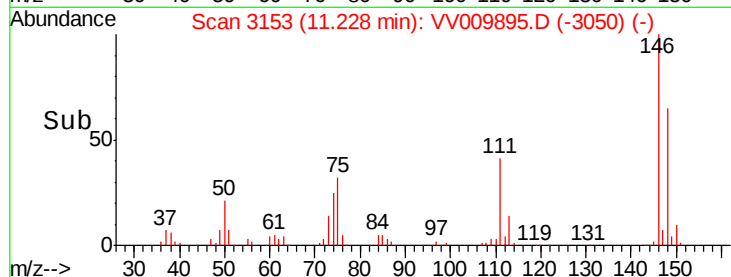
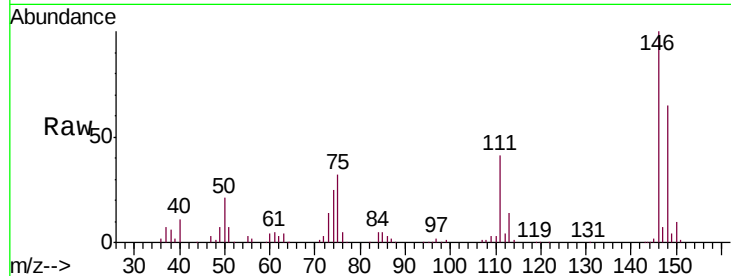
Tgt Ion:146 Resp: 139081

Ion Ratio Lower Upper

146 100

111 41.1 28.5 52.9

148 65.3 45.0 83.6



#64

1,4-Dichlorobenzene

Concen: 23.855 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

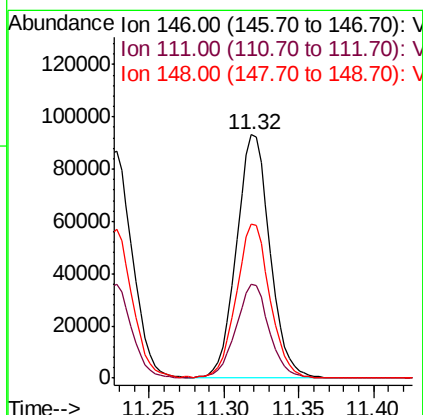
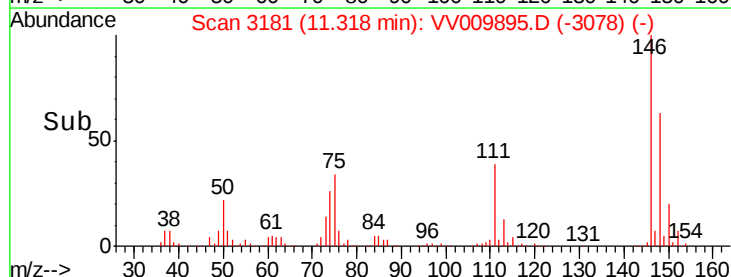
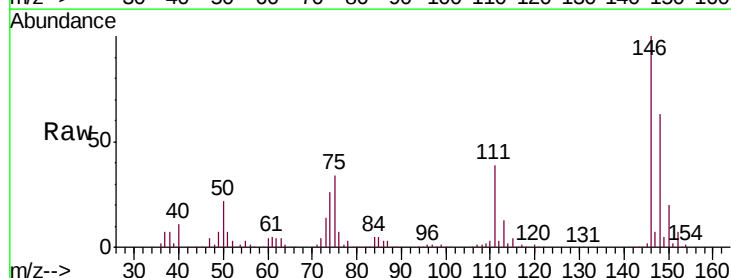
Tgt Ion:146 Resp: 145539

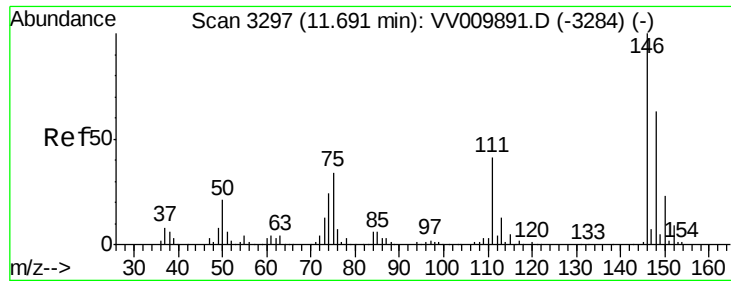
Ion Ratio Lower Upper

146 100

111 38.6 25.4 47.2

148 63.4 44.1 81.9





#65

1,2-Dichlorobenzene

Concen: 24.507 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

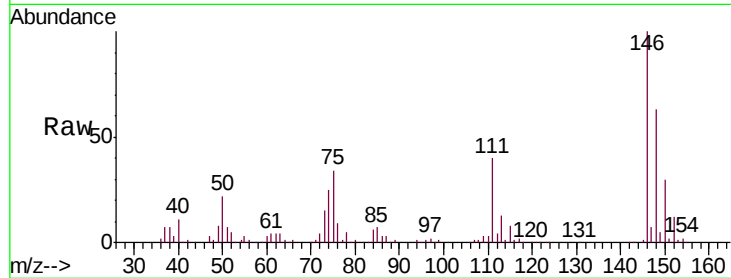
Tgt Ion:146 Resp: 135779

Ion Ratio Lower Upper

146 100

111 39.9 32.7 49.1

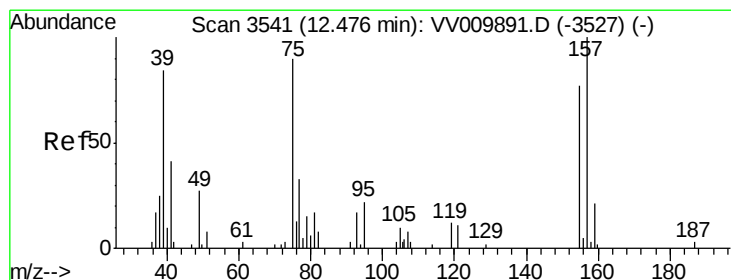
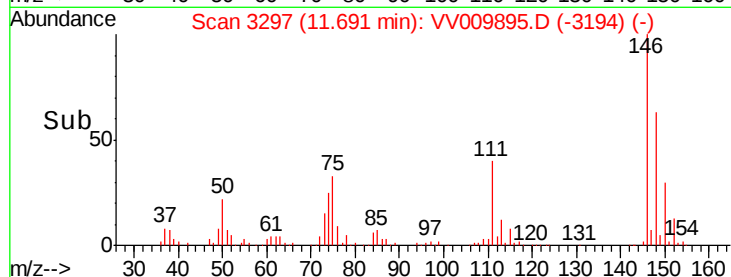
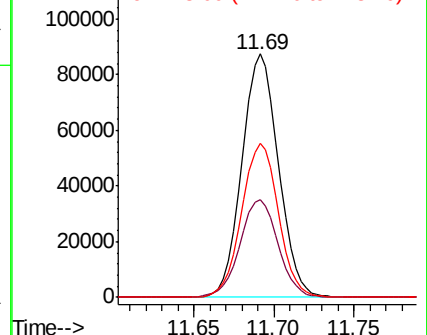
148 63.0 50.5 75.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 28.064 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

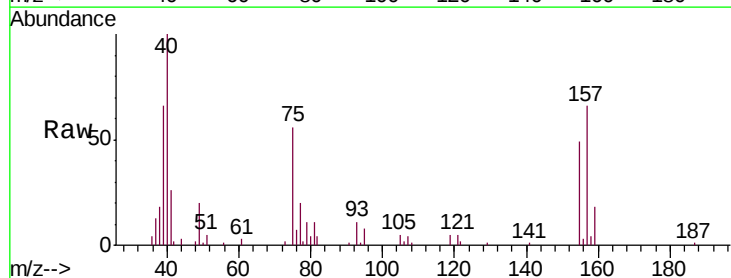
Tgt Ion: 75 Resp: 9718

Ion Ratio Lower Upper

75 100

157 117.5 89.2 133.8

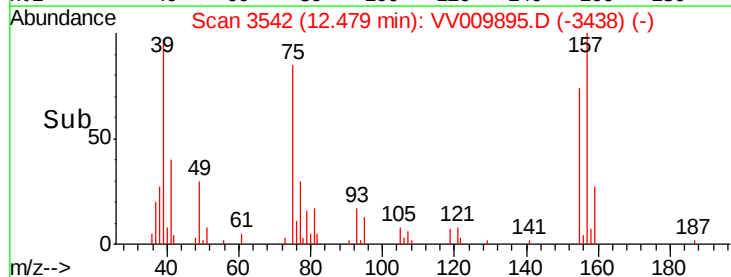
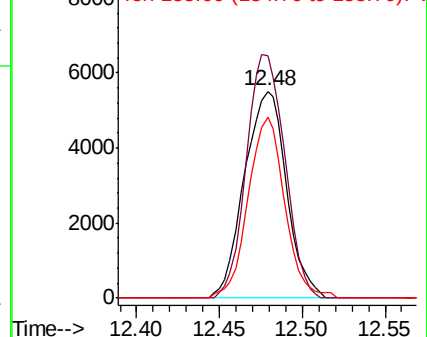
155 87.3 68.6 102.8

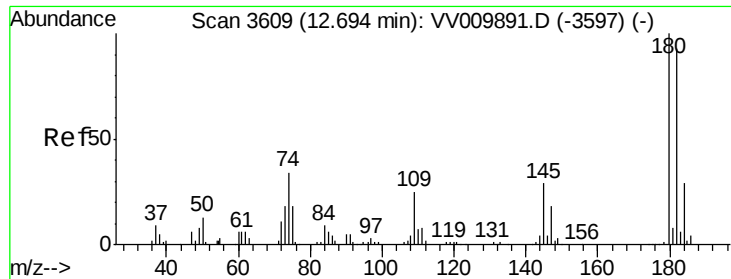


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

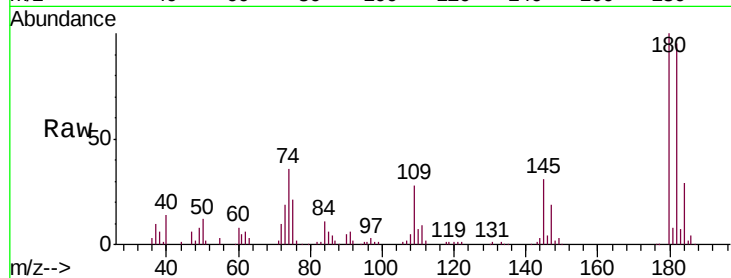




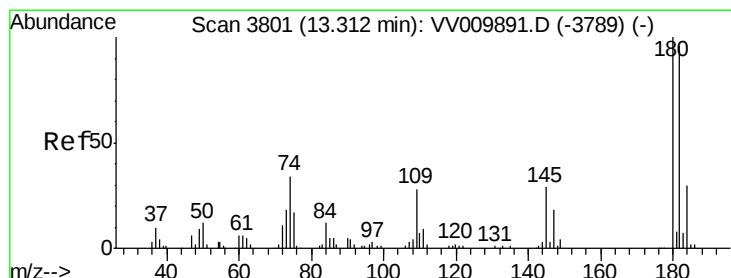
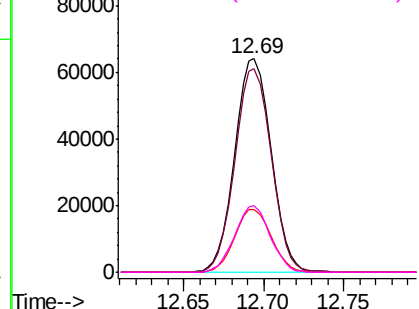
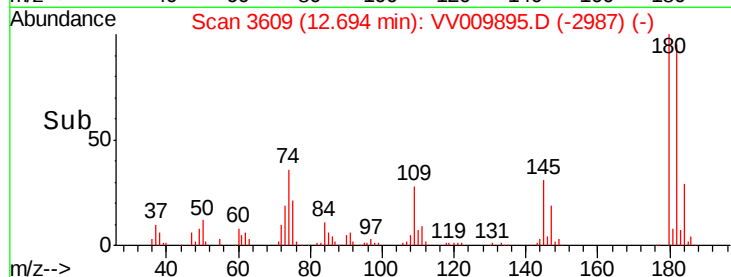
#67
 1,3,5-Trichlorobenzene
 Concen: 24.923 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV009895.D
 Acq: 26 Mar 2019 15:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

Tgt Ion:180 Resp: 99361
 Ion Ratio Lower Upper
 180 100
 182 95.1 78.4 117.6
 184 29.6 24.3 36.5
 145 30.3 24.9 37.3

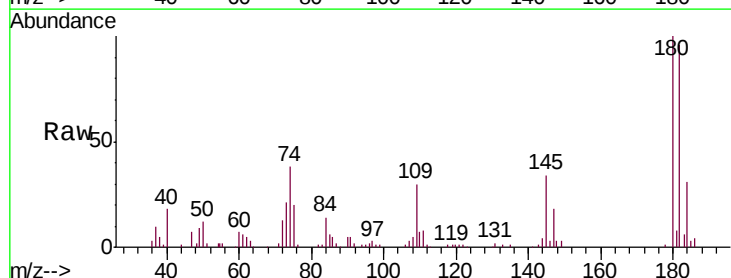


Abundance Ion 180.00 (179.70 to 180.70): V
 100000
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

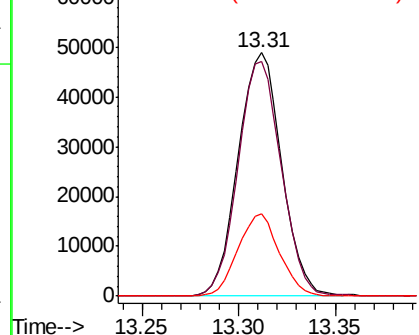
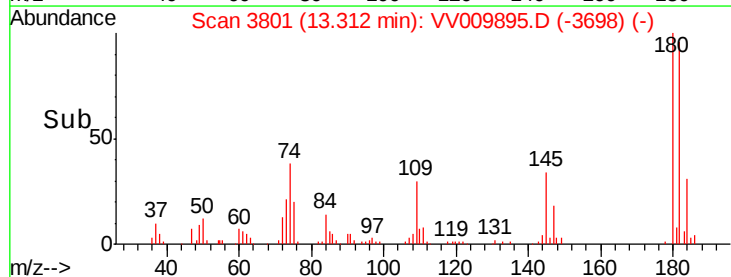


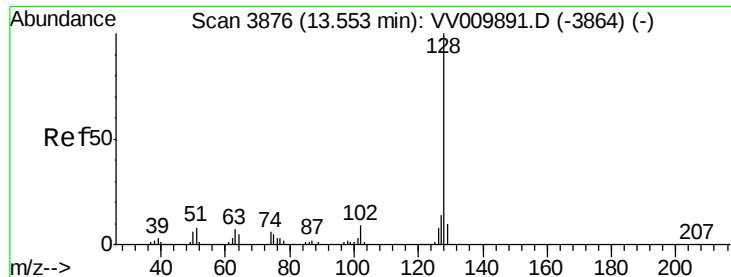
#68
 1,2,4-trichlorobenzene
 Concen: 26.014 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009895.D
 Acq: 26 Mar 2019 15:08

Tgt Ion:180 Resp: 76506
 Ion Ratio Lower Upper
 180 100
 182 95.8 75.5 113.3
 145 32.0 23.2 34.8



Abundance Ion 180.00 (179.70 to 180.70): V
 60000
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 28.905 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

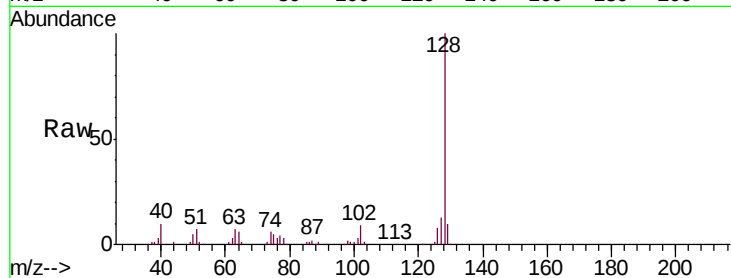
Tgt Ion:128 Resp: 141305

Ion Ratio Lower Upper

128 100

129 10.8 8.8 13.2

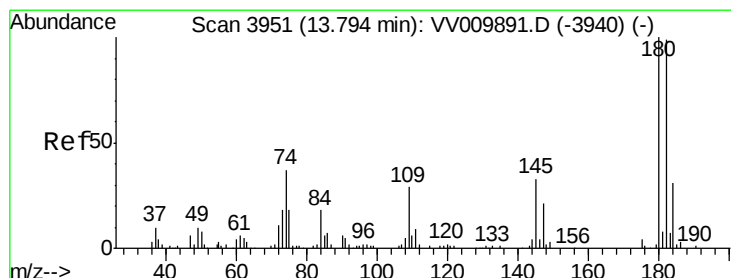
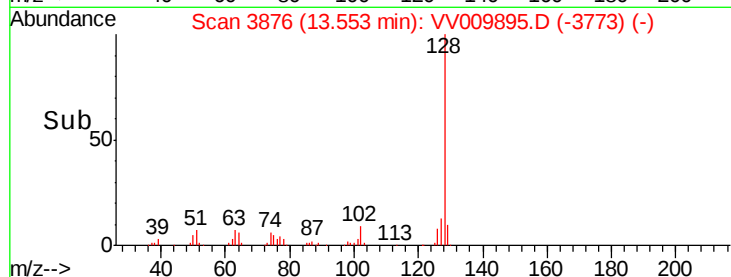
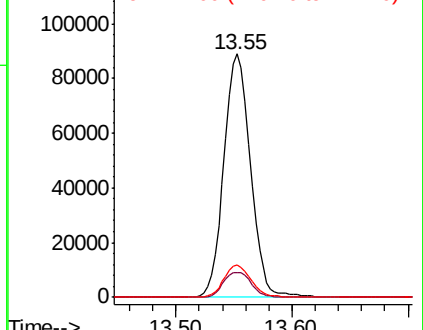
127 13.4 11.4 17.2



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: 26.684 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV009895.D

Acq: 26 Mar 2019 15:08

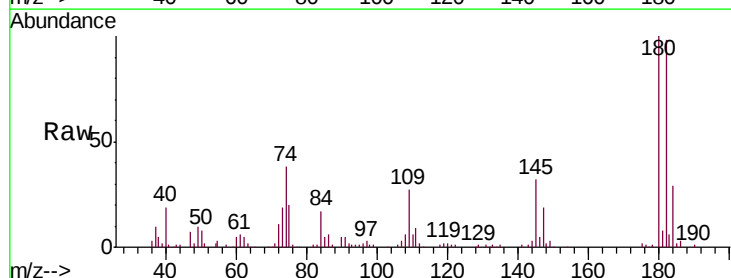
Tgt Ion:180 Resp: 74619

Ion Ratio Lower Upper

180 100

182 97.1 77.1 115.7

145 32.6 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

