

Data File : VV010643.D
Acq On : 03 May 2019 01:21
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02581

Quant Time: May 03 02:26:38 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM050219S.M
Quant Title : VOC Analysis
QLast Update : Fri May 03 02:22:17 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	150561	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	157673	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	76308	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	36500	19.15	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	76.60%
7) Chloroethane-d5	1.57	69	28197	21.13	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	84.52%
10) 1,1-Dichloroethene-d2	2.13	63	66107	19.78	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	79.12%
20) 2-Butanone-d5	3.93	46	39005	67.25	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	134.50%
24) Chloroform-d	4.40	84	98018	25.20	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	100.80%
26) 1,2-Dichloroethane-d4	5.08	65	58988	26.47	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	105.88%
29) Benzene-d6	5.10	84	190889	23.36	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	93.44%
33) 1,2-Dichloropropane-d6	6.12	67	61494	24.57	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	98.28%
37) Toluene-d8	7.36	98	180542	22.99	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	91.96%
38) trans-1,3-Dichloropropene-	7.66	79	26051	25.18	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	100.72%
39) 2-Hexanone-d5	8.13	63	27241	61.13	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	122.26%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	62110	27.53	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	110.12%
61) 1,2-Dichlorobenzene-d4	11.67	152	74784	25.47	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	101.88%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	47921	21.529 ug/L	98
3) Chloromethane	1.25	50	45782	22.366 ug/L	98
5) Vinyl chloride	1.32	62	39047	21.154 ug/L	98
6) Bromomethane	1.51	94	21322	22.559 ug/L	99
8) Chloroethane	1.59	64	22541	23.142 ug/L	95
9) Trichlorofluoromethane	1.76	101	66515	20.357 ug/L	97
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	32879	19.874 ug/L	98
12) 1,1-Dichloroethene	2.13	96	30129	20.829 ug/L	93
13) Acetone	2.19	43	24010	48.291 ug/L	99
14) Carbon disulfide	2.31	76	102052	21.309 ug/L	98
15) Methyl Acetate	2.46	43	31166	32.067 ug/L	98
16) Methylene chloride	2.53	84	53782	25.611 ug/L	97
17) Methyl tert-butyl Ether	2.80	73	127670	28.655 ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	43945	23.923 ug/L	98
19) 1,1-Dichloroethane	3.23	63	85575	25.543 ug/L	100
21) 2-Butanone	4.01	43	40150	61.930 ug/L	96
22) cis-1,2-Dichloroethene	3.96	96	53417	26.640 ug/L	96

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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	26702	28.166	ug/L	97
25) Chloroform	4.42	83	94834	25.538	ug/L	100
27) 1,2-Dichloroethane	5.18	62	66089	27.478	ug/L #	94
30) Cyclohexane	4.72	56	56425	20.347	ug/L	97
31) 1,1,1-Trichloroethane	4.66	97	72652	23.587	ug/L	99
32) Carbon tetrachloride	4.87	117	62501	22.668	ug/L	99
34) Benzene	5.14	78	184021	24.415	ug/L	100
35) Trichloroethene	5.96	95	50850	23.652	ug/L	100
36) Methylcyclohexane	6.17	83	62788	20.440	ug/L	99
40) 1,2-Dichloropropane	6.22	63	51453	26.246	ug/L	99
41) Bromodichloromethane	6.55	83	68559	26.411	ug/L	98
42) cis-1,3-Dichloropropene	7.07	75	73279	25.554	ug/L	97
43) 4-Methyl-2-pentanone	7.27	43	82656	59.881	ug/L	96
44) Toluene	7.43	91	206425	24.815	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	65094	26.972	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	47513	29.024	ug/L	97
47) Tetrachloroethene	8.02	164	37494	22.373	ug/L	96
49) 2-Hexanone	8.18	43	59481	57.966	ug/L	99
50) Dibromochloromethane	8.29	129	52931	27.265	ug/L	96
51) 1,2-Dibromoethane	8.40	107	44875	28.420	ug/L	93
52) Chlorobenzene	8.93	112	144482	24.886	ug/L	99
53) Ethylbenzene	9.06	91	228050	24.239	ug/L	100
54) m,p-Xylene	9.18	106	86365	24.226	ug/L	98
55) o-xylene	9.59	106	90239	25.909	ug/L	99
56) Styrene	9.60	104	156165	26.419	ug/L	99
57) Isopropylbenzene	9.97	105	225622	24.686	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	58662	28.726	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	46177	30.058	ug/L	100
62) Bromoform	9.77	173	29994	28.026	ug/L #	96
63) 1,3-Dichlorobenzene	11.23	146	110438	25.362	ug/L	100
64) 1,4-Dichlorobenzene	11.32	146	113170	24.888	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	112644	26.202	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	9610	30.395	ug/L	97
67) 1,3,5-Trichlorobenzene	12.69	180	80169	23.979	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	64258	25.190	ug/L	99
69) Naphthalene	13.55	128	145336	29.797	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	64894	26.970	ug/L	97

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

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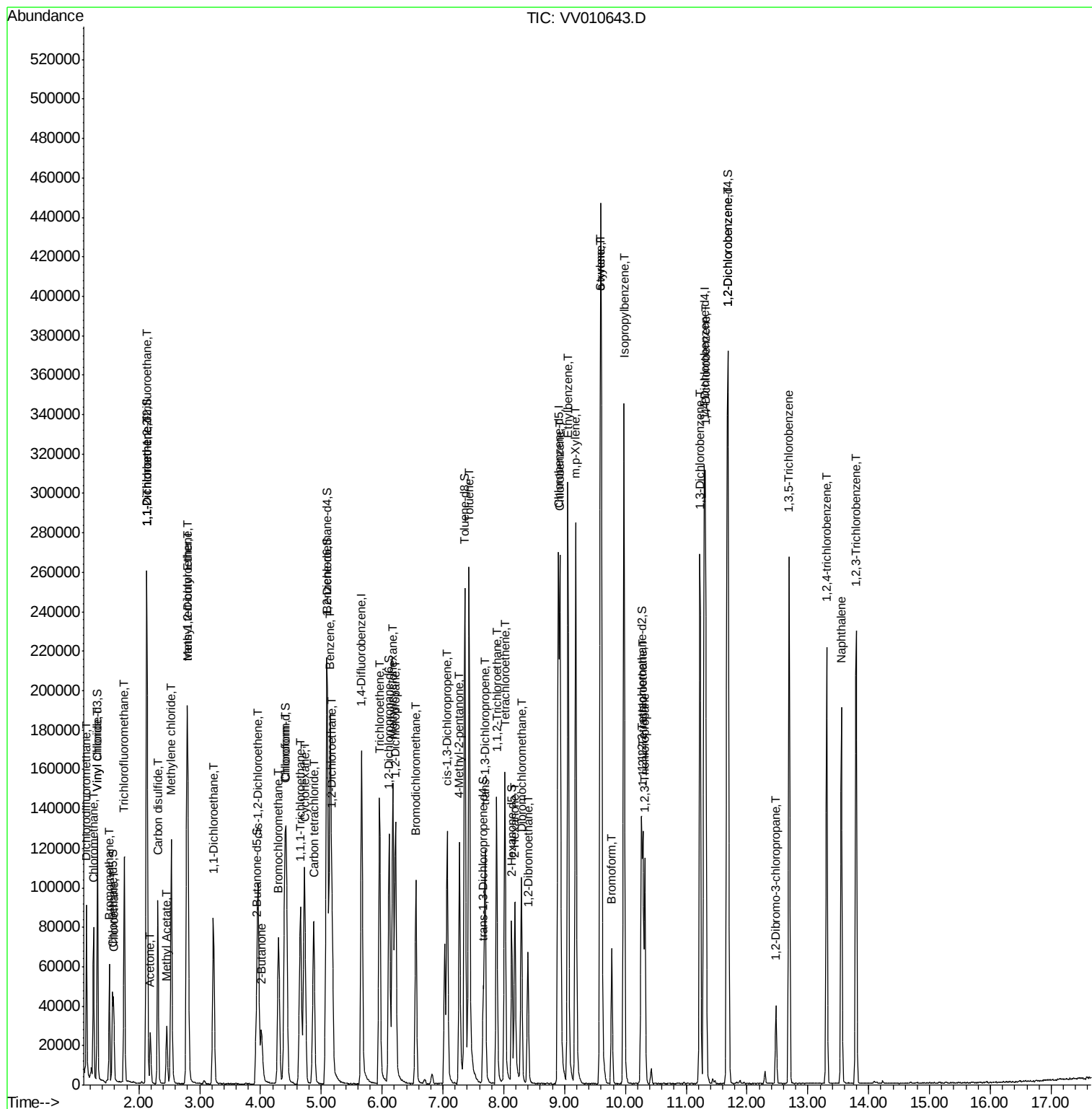
Quant Time: May 03 02:26:38 2019

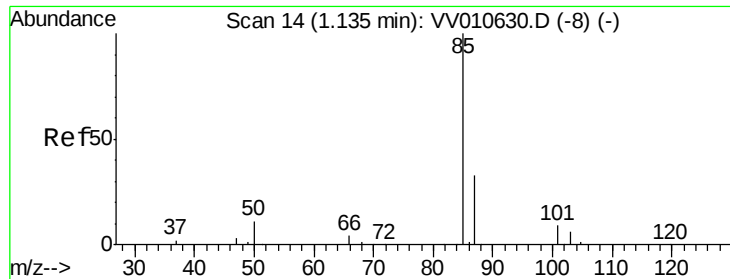
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM050219S.M

Quant Title : VOC Analysis

QLast Update : Fri May 03 02:22:17 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 21.529 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

Instrument :

MSVOA_V

ClientSampleId :

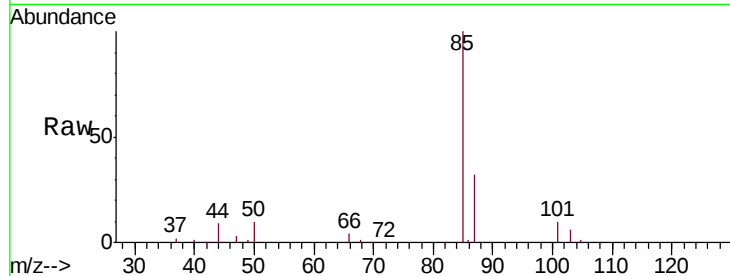
VSTD02581

Tgt Ion: 85 Resp: 47921

Ion Ratio Lower Upper

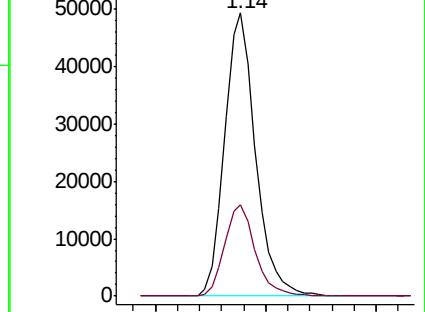
85 100

87 31.9 23.0 42.8

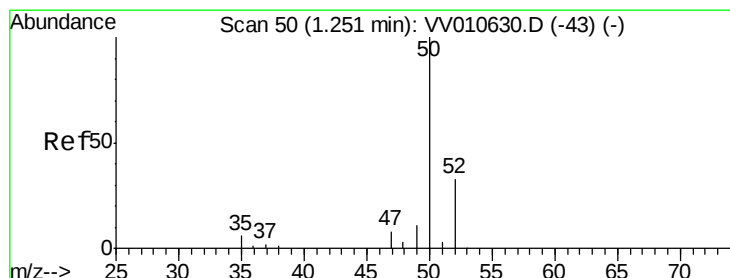
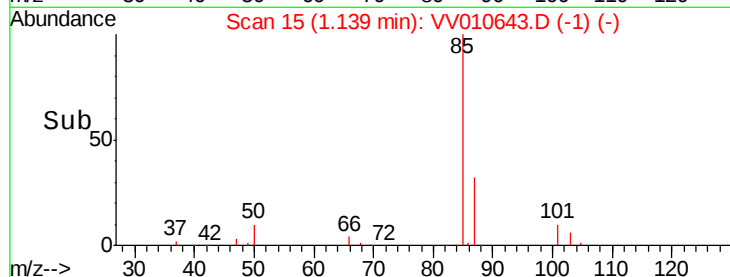


Abundance Ion 85.00 (84.70 to 85.70): VV010630.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV010630.D (-8) (-)



Time-->



#3

Chloromethane

Concen: 22.366 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV010643.D

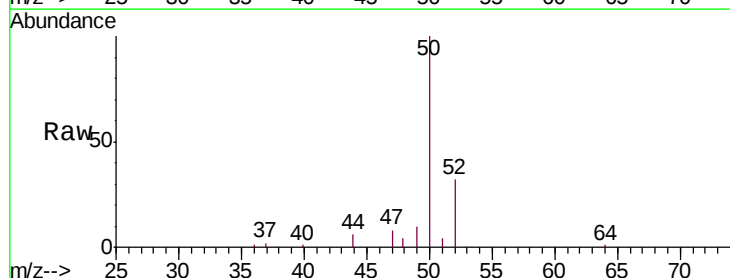
Acq: 03 May 2019 01:21

Tgt Ion: 50 Resp: 45782

Ion Ratio Lower Upper

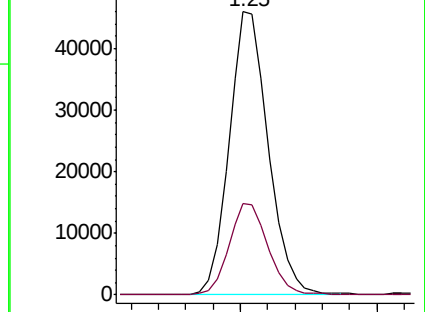
50 100

52 32.5 23.4 43.4

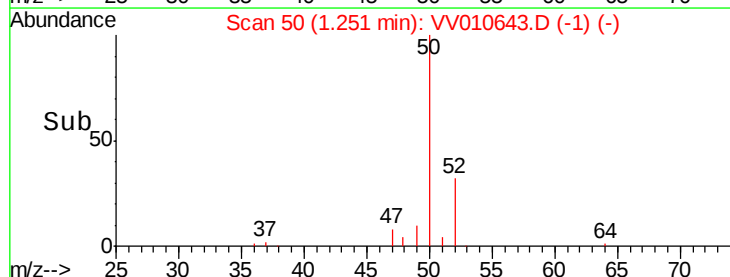


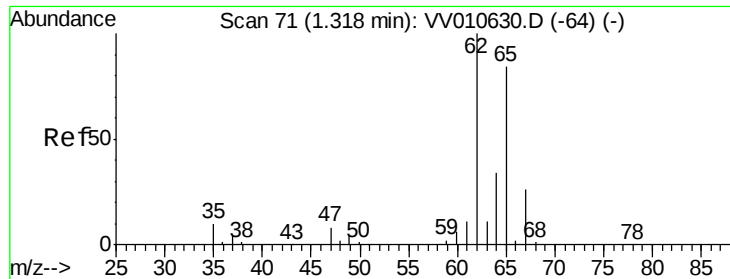
Abundance Ion 50.00 (49.70 to 50.70): VV010630.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV010630.D (-43) (-)



Time-->





#5

Vinyl chloride

Concen: 21.154 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

Instrument :

MSVOA_V

ClientSampleId :

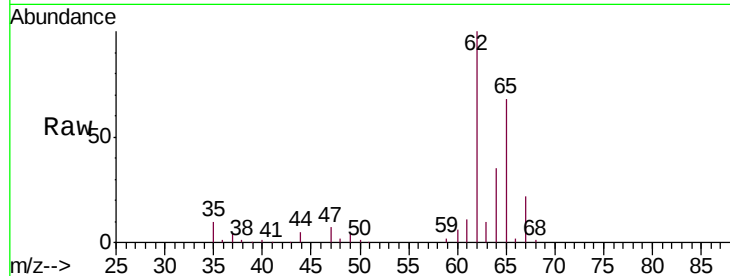
VSTD02581

Tgt Ion: 62 Resp: 39047

Ion Ratio Lower Upper

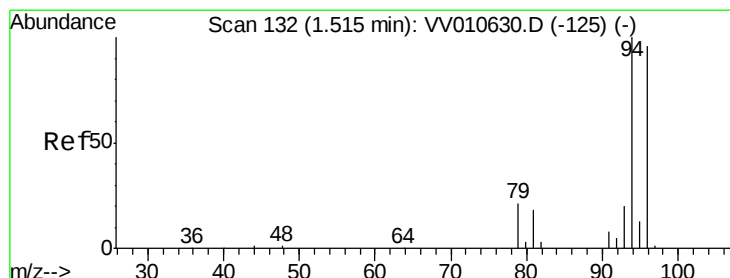
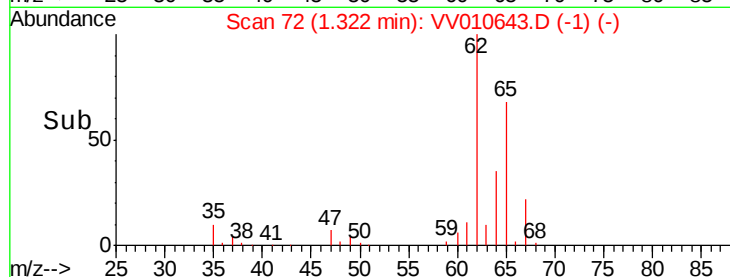
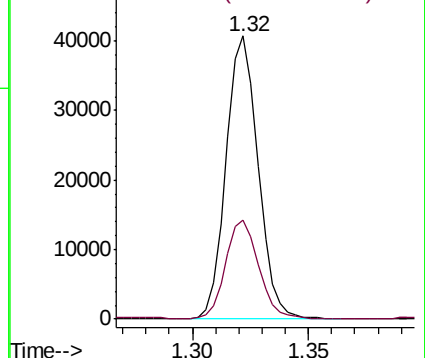
62 100

64 34.9 23.4 43.6



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 22.559 ug/L

RT: 1.51 min Scan# 132

Delta R.T. 0.00 min

Lab File: VV010643.D

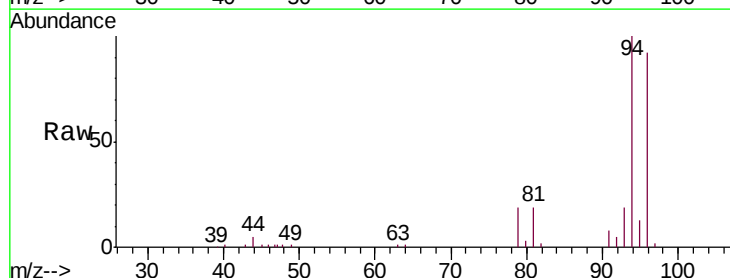
Acq: 03 May 2019 01:21

Tgt Ion: 94 Resp: 21322

Ion Ratio Lower Upper

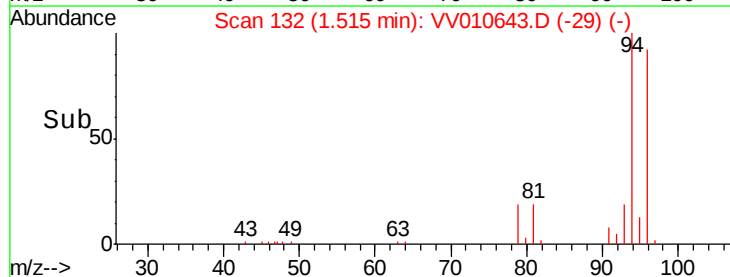
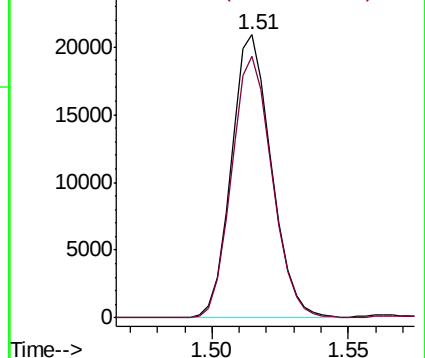
94 100

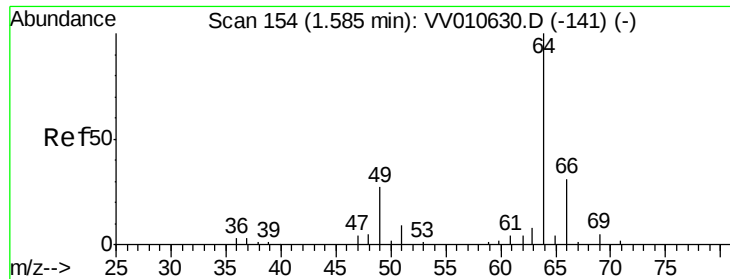
96 93.5 9.4 178.6



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 23.142 ug/L

RT: 1.59 min Scan# 154

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

Instrument :

MSVOA_V

ClientSampleId :

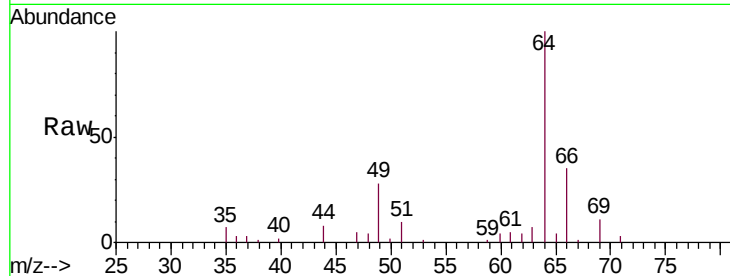
VSTD02581

Tgt Ion: 64 Resp: 22541

Ion Ratio Lower Upper

64 100

66 34.9 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VV010643.D (-141) (-)

Ion 66.00 (65.70 to 66.70): VV010643.D (-141) (-)

1.59

20000

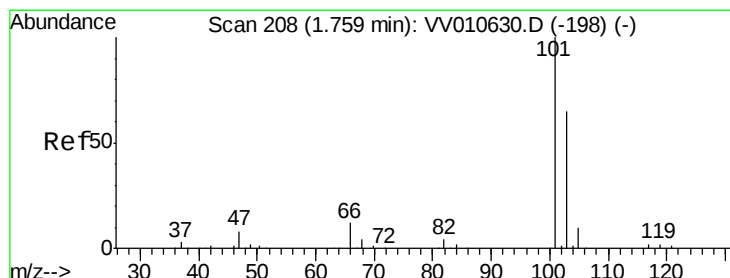
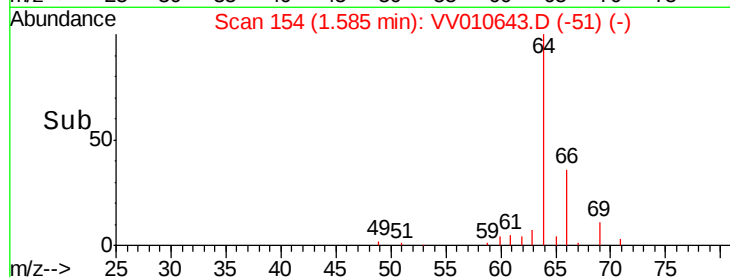
15000

10000

5000

0

Time-->



#9

Trichlorofluoromethane

Concen: 20.357 ug/L

RT: 1.76 min Scan# 208

Delta R.T. 0.00 min

Lab File: VV010643.D

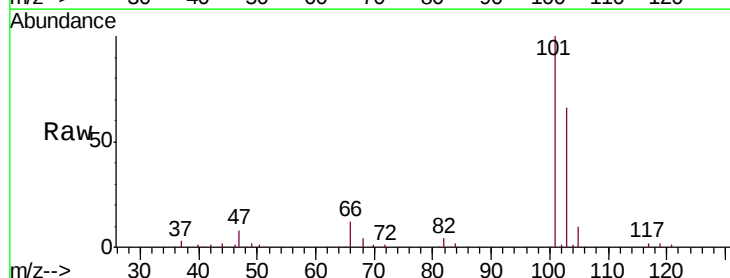
Acq: 03 May 2019 01:21

Tgt Ion: 101 Resp: 66515

Ion Ratio Lower Upper

101 100

103 66.7 45.1 83.9



Abundance Ion 101.00 (100.70 to 101.70): VV010643.D (-198) (-)

Ion 103.00 (102.70 to 103.70): VV010643.D (-198) (-)

1.76

60000

50000

40000

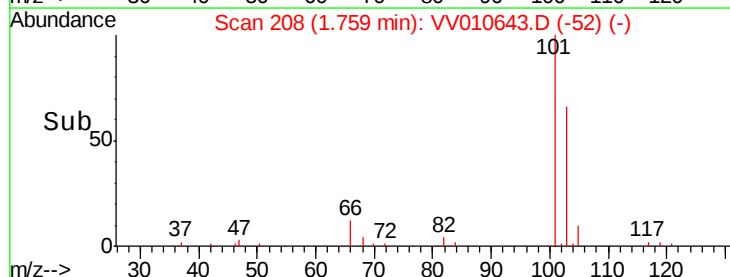
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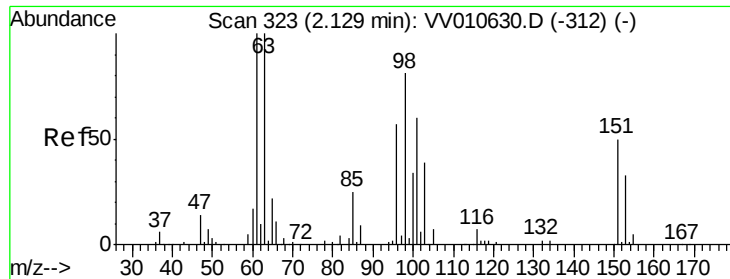
20000

10000

0

Time-->





#11

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

Concen: 19.874 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

Instrument :

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ClientSampleId :

VSTD02581

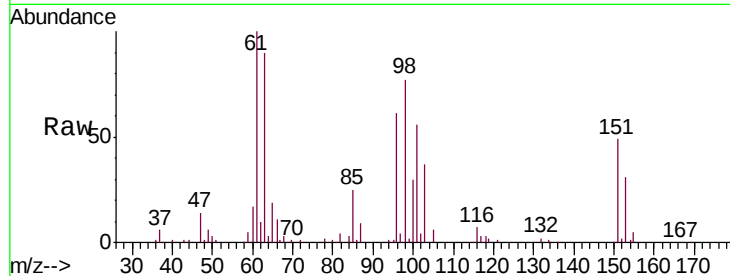
Tgt Ion:101 Resp: 32879

Ion Ratio Lower Upper

101 100

85 44.1 34.6 51.8

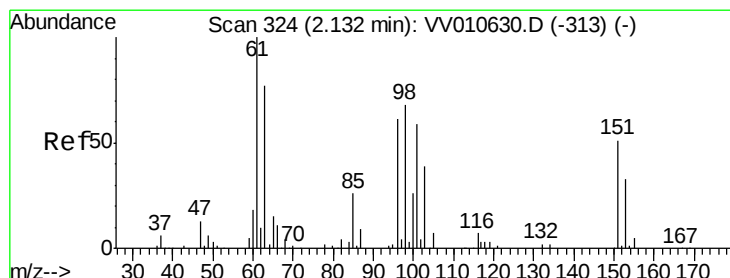
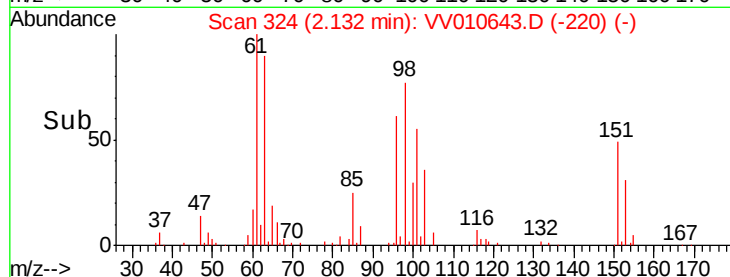
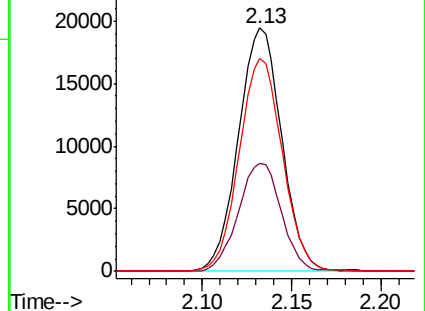
151 87.9 68.6 103.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 20.829 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

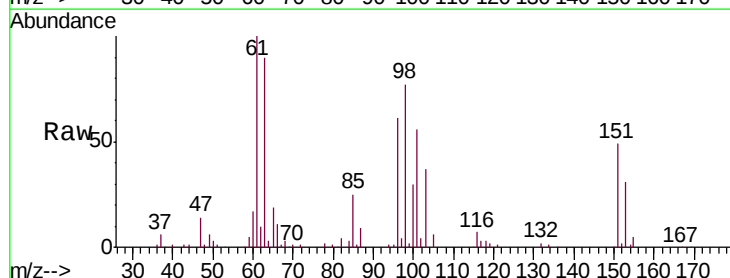
Tgt Ion: 96 Resp: 30129

Ion Ratio Lower Upper

96 100

61 164.4 111.1 206.3

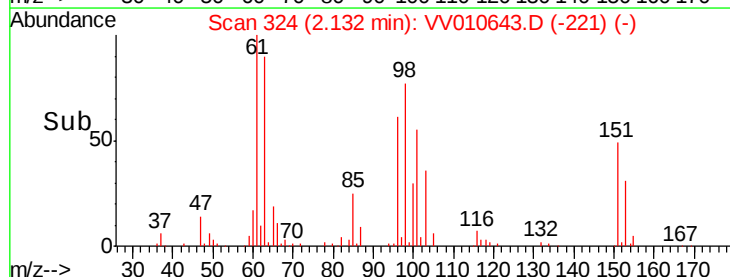
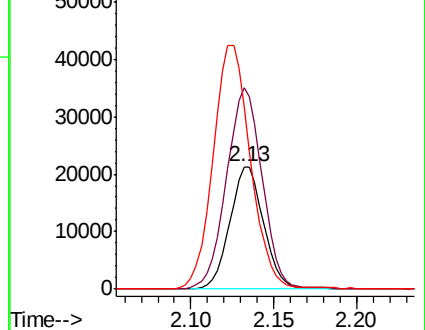
63 148.6 95.2 176.8

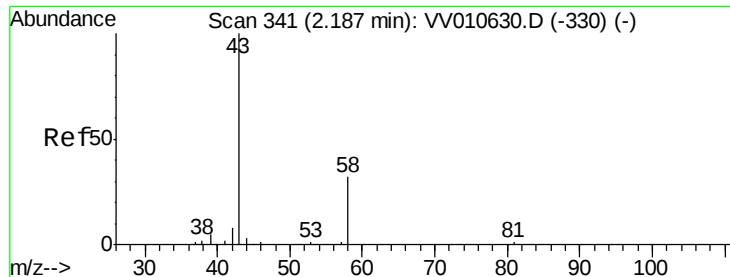


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 48.291 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

Instrument :

MSVOA_V

ClientSampleId :

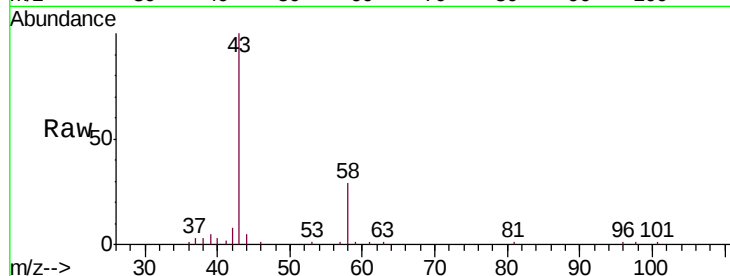
VSTD02581

Tgt Ion: 43 Resp: 24010

Ion Ratio Lower Upper

43 100

58 29.8 0.0 58.2



Abundance Ion 43.00 (42.70 to 43.70): VV010630.D (-330) (-)

Ion 58.00 (57.70 to 58.70): VV010630.D (-330) (-)

2.19

15000

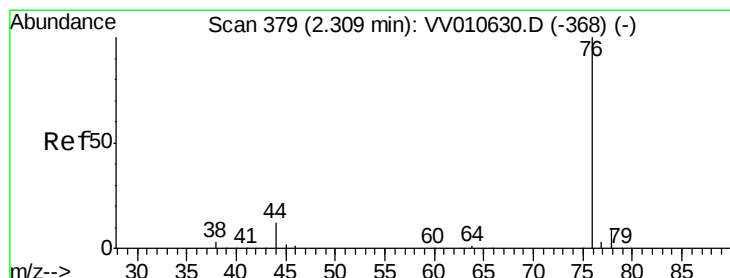
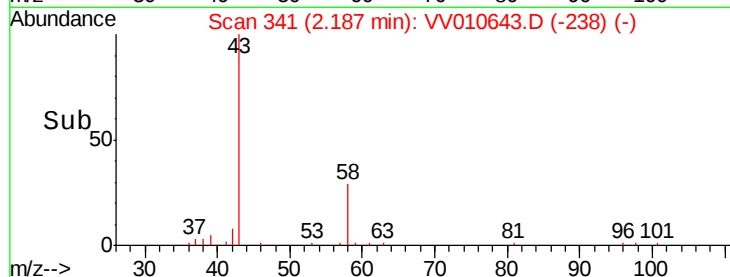
10000

5000

0

Time-->

2.15 2.20 2.25



#14

Carbon disulfide

Concen: 21.309 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV010643.D

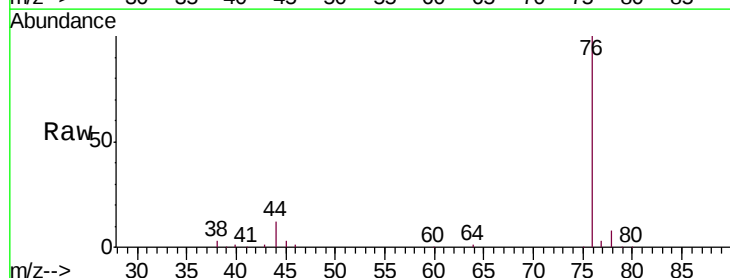
Acq: 03 May 2019 01:21

Tgt Ion: 76 Resp: 102052

Ion Ratio Lower Upper

76 100

78 8.5 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV010630.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV010630.D (-368) (-)

2.31

80000

60000

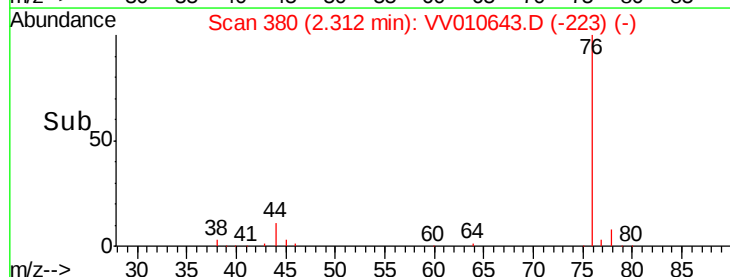
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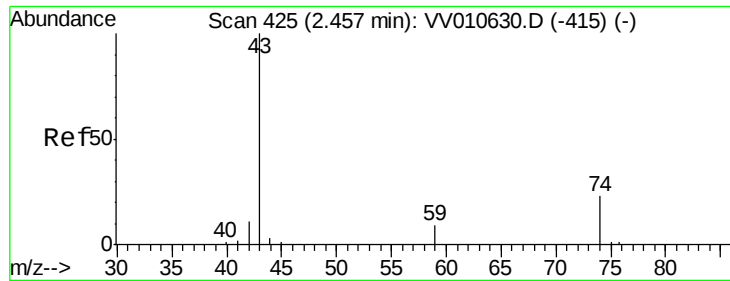
20000

0

Time-->

2.25 2.30 2.35 2.40

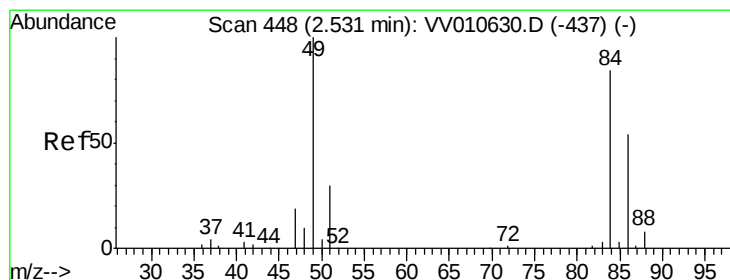
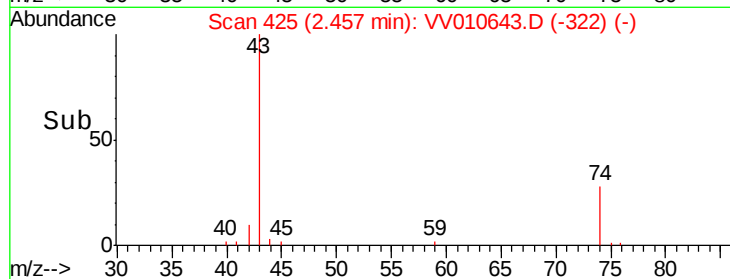
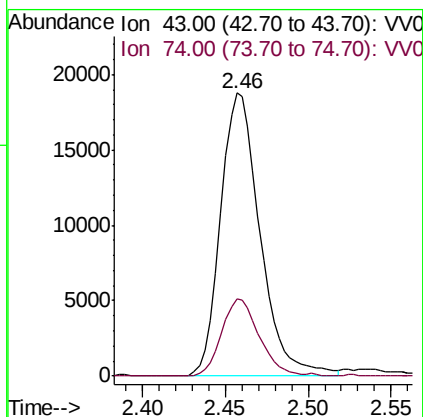
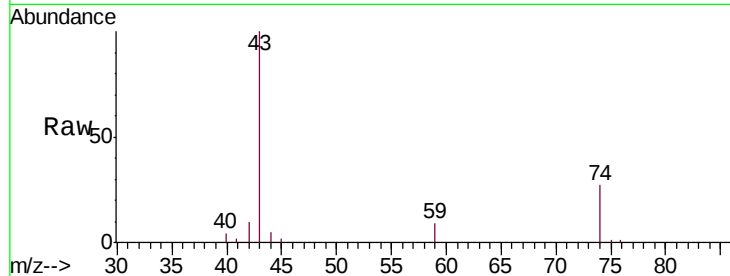




#15
Methyl Acetate
Concen: 32.067 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.00 min
Lab File: VV010643.D
Acq: 03 May 2019 01:21

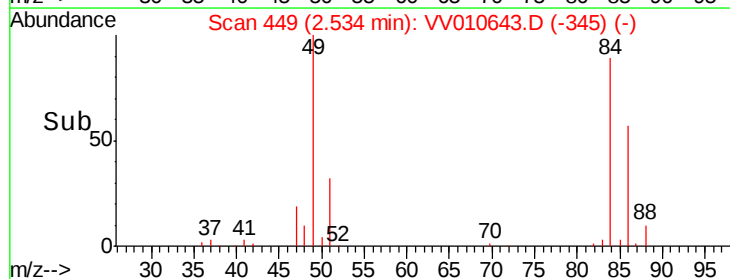
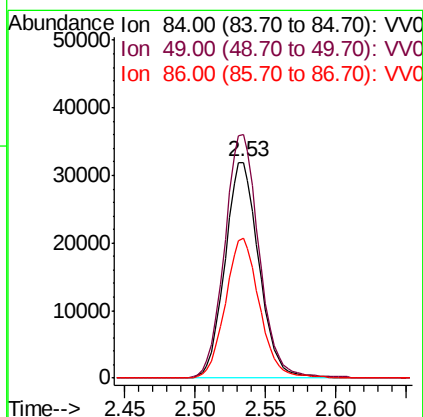
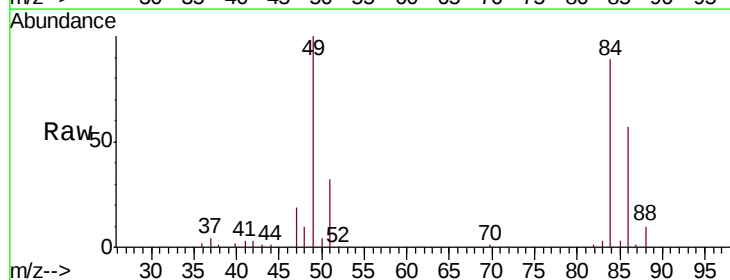
Instrument :
MSVOA_V
ClientSampleId :
VSTD02581

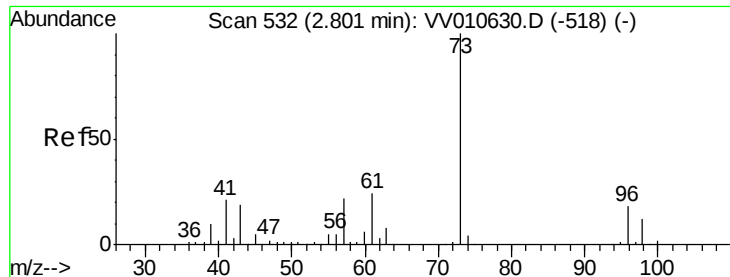
Tgt Ion: 43 Resp: 31166
Ion Ratio Lower Upper
43 100
74 25.8 20.0 30.0



#16
Methylene chloride
Concen: 25.611 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV010643.D
Acq: 03 May 2019 01:21

Tgt Ion: 84 Resp: 53782
Ion Ratio Lower Upper
84 100
49 112.8 81.9 152.1
86 64.6 44.0 81.6

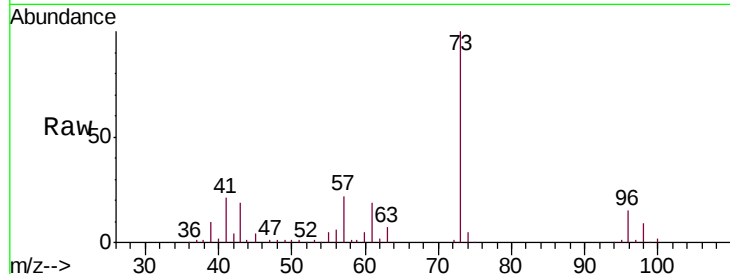




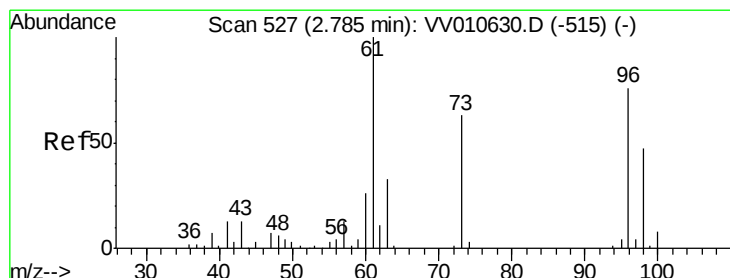
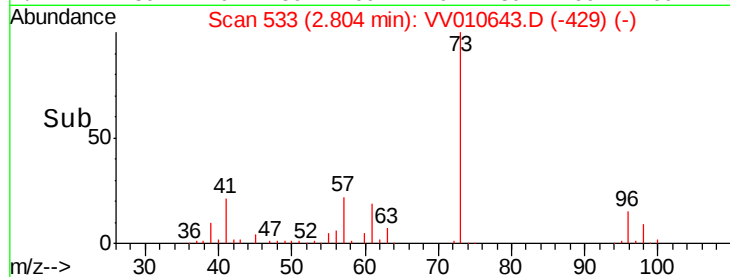
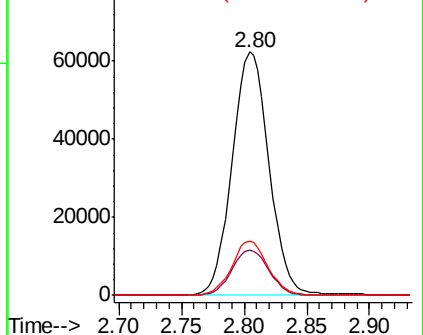
#17
Methyl tert-butyl Ether
Concen: 28.655 ug/L
RT: 2.80 min Scan# 533
Delta R.T. 0.00 min
Lab File: VV010643.D
Acq: 03 May 2019 01:21

Instrument :
MSVOA_V
ClientSampleId :
VSTD02581

Tgt Ion: 73 Resp: 127670
Ion Ratio Lower Upper
73 100
43 18.8 15.9 23.9
57 21.7 17.9 26.9

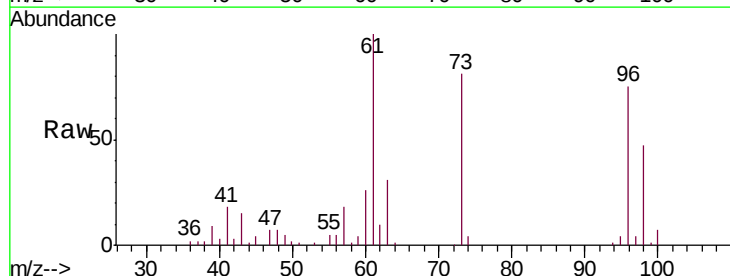


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

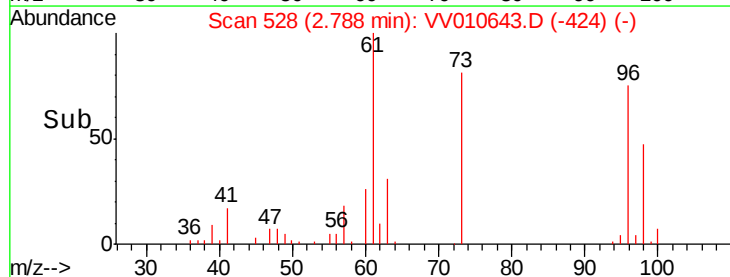
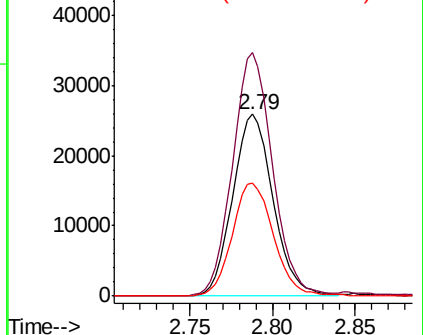


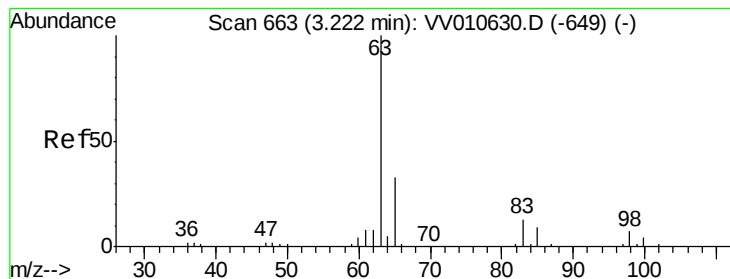
#18
trans-1,2-Dichloroethene
Concen: 23.923 ug/L
RT: 2.79 min Scan# 528
Delta R.T. 0.00 min
Lab File: VV010643.D
Acq: 03 May 2019 01:21

Tgt Ion: 96 Resp: 43945
Ion Ratio Lower Upper
96 100
61 133.7 94.6 175.8
98 62.2 45.2 84.0



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





#19

1,1-Dichloroethane

Concen: 25.543 ug/L

RT: 3.23 min Scan# 664

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

Instrument :

MSVOA_V

ClientSampleId :

VSTD02581

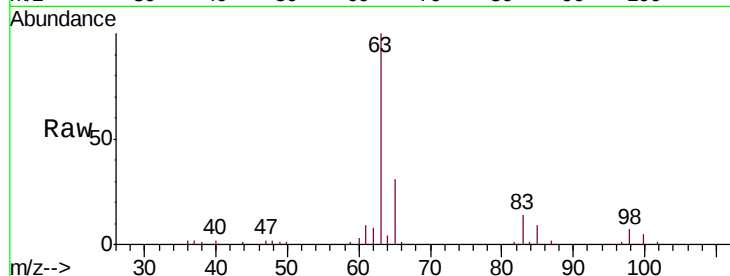
Tgt Ion: 63 Resp: 85575

Ion Ratio Lower Upper

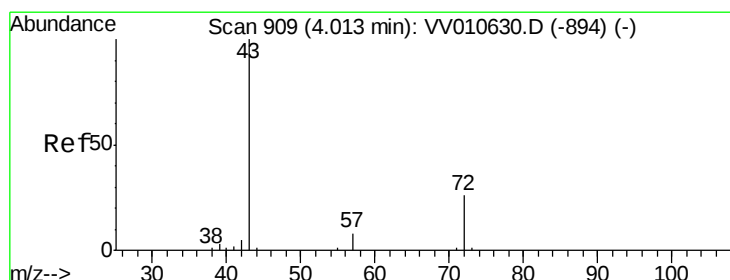
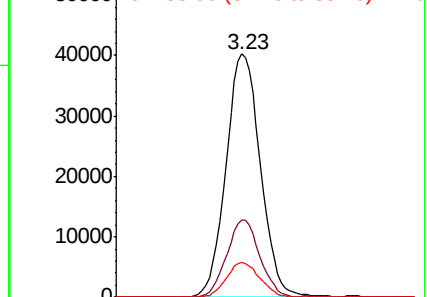
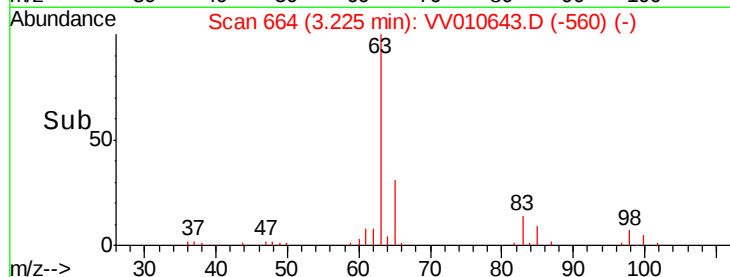
63 100

65 31.5 22.0 40.8

83 14.2 10.0 18.6



Abundance Ion 63.00 (62.70 to 63.70): VV010643.D (-560) (-)



#21

2-Butanone

Concen: 61.930 ug/L

RT: 4.01 min Scan# 909

Delta R.T. 0.00 min

Lab File: VV010643.D

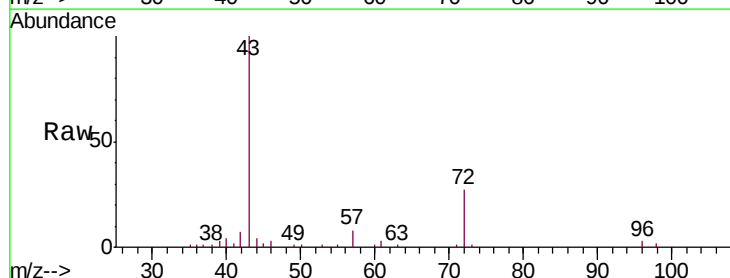
Acq: 03 May 2019 01:21

Tgt Ion: 43 Resp: 40150

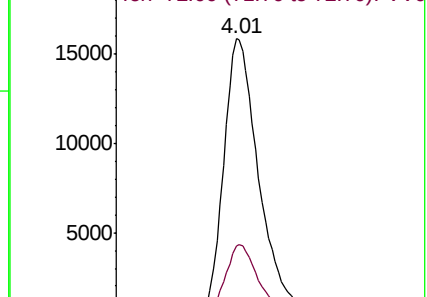
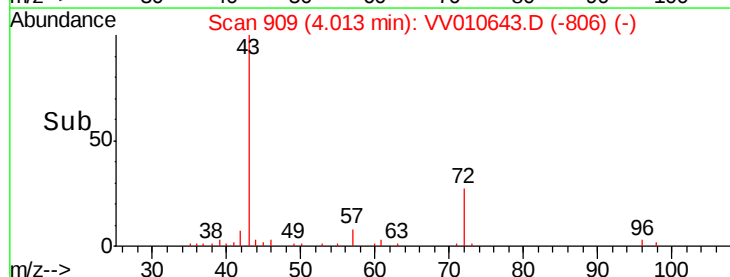
Ion Ratio Lower Upper

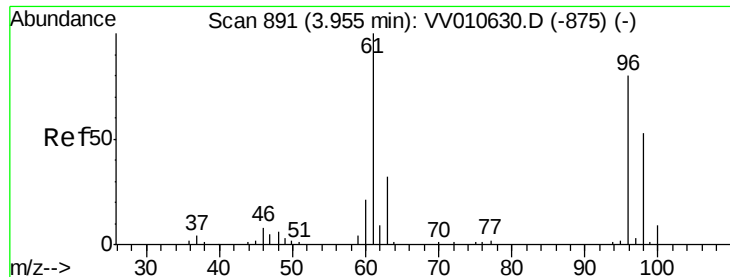
43 100

72 26.1 14.2 42.6



Abundance Ion 43.00 (42.70 to 43.70): VV010643.D (-806) (-)



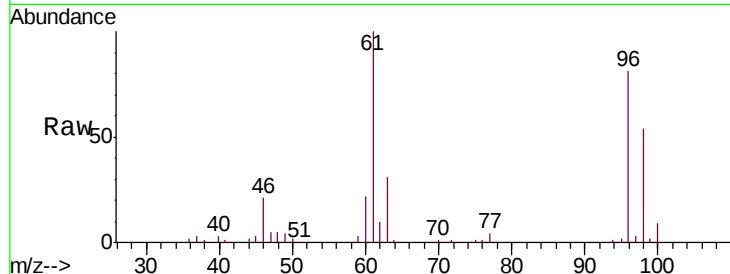


#22

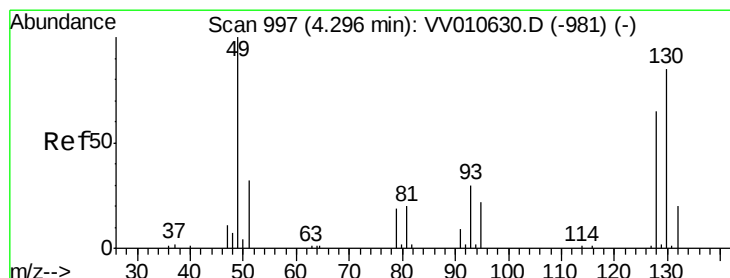
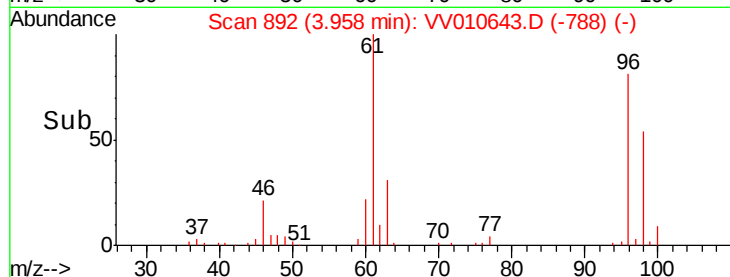
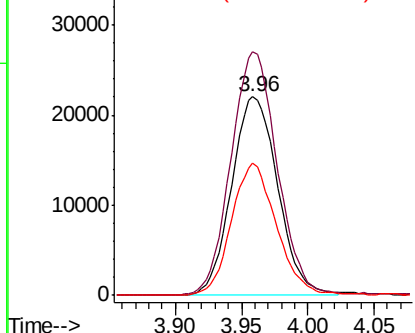
cis-1,2-Dichloroethene
Concen: 26.640 ug/L
RT: 3.96 min Scan# 892
Delta R.T. 0.00 min
Lab File: VV010643.D
Acq: 03 May 2019 01:21

Instrument :
MSVOA_V
ClientSampleId :
VSTD02581

Tgt Ion: 96 Resp: 53417
Ion Ratio Lower Upper
96 100
61 122.7 89.6 166.4
98 66.7 44.5 82.7



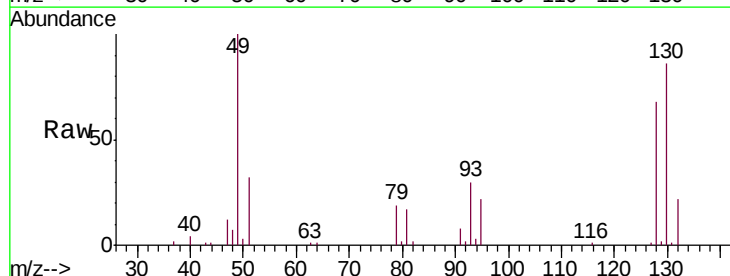
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



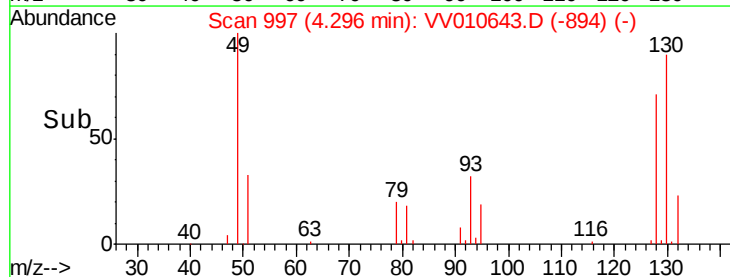
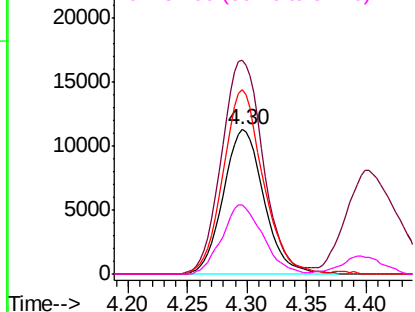
#23

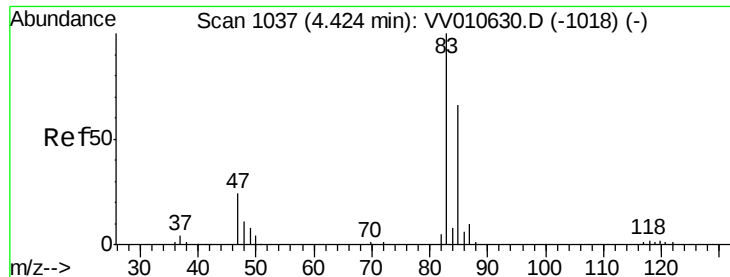
Bromochloromethane
Concen: 28.166 ug/L
RT: 4.30 min Scan# 997
Delta R.T. 0.00 min
Lab File: VV010643.D
Acq: 03 May 2019 01:21

Tgt Ion: 128 Resp: 26702
Ion Ratio Lower Upper
128 100
49 147.9 108.0 200.6
130 127.5 89.7 166.7
51 48.0 37.3 55.9



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

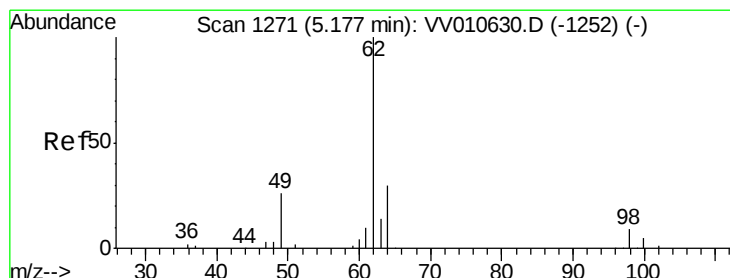
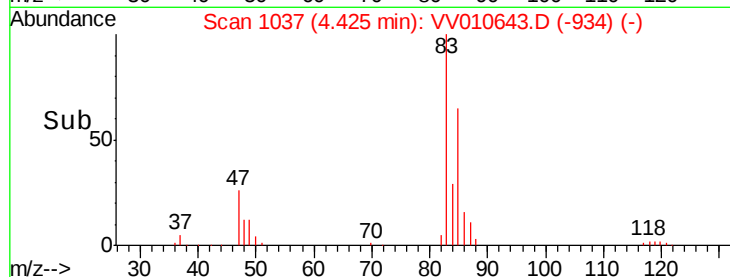
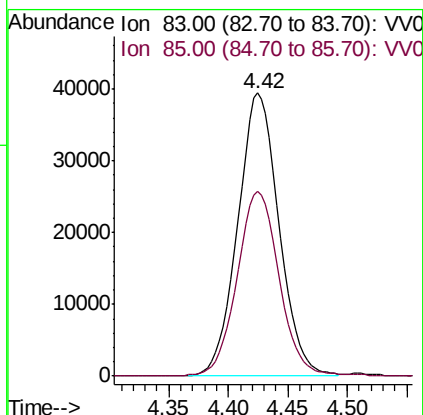
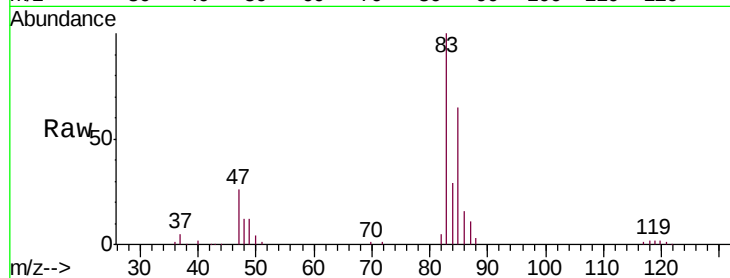




#25
Chloroform
Concen: 25.538 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV010643.D
Acq: 03 May 2019 01:21

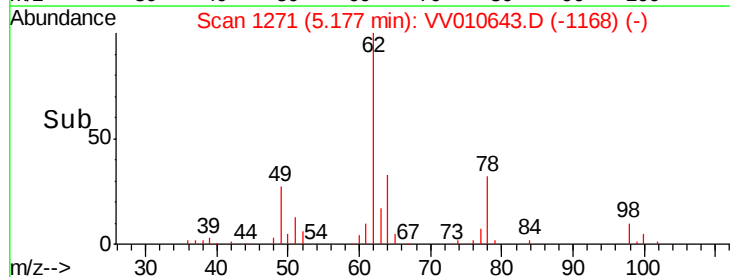
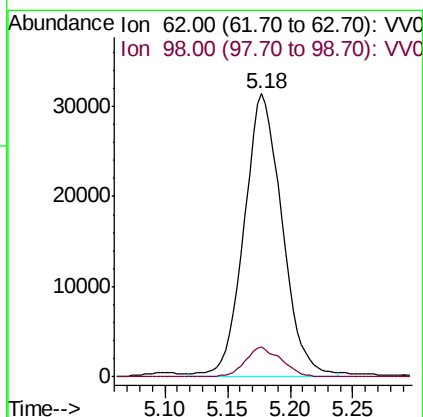
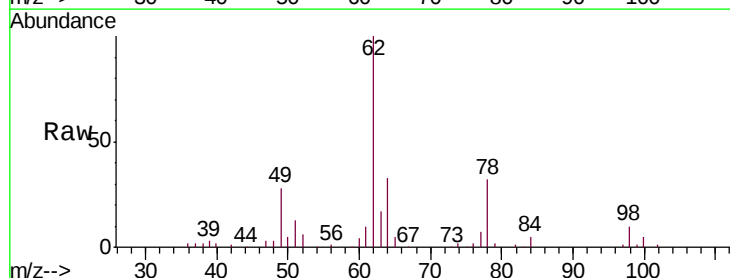
Instrument :
MSVOA_V
ClientSampleId :
VSTD02581

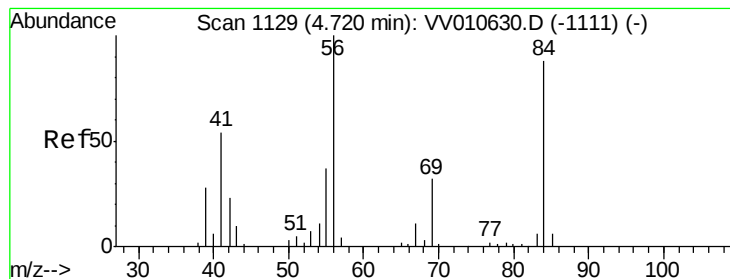
Tgt Ion: 83 Resp: 94834
Ion Ratio Lower Upper
83 100
85 66.5 46.3 86.1



#27
1,2-Dichloroethane
Concen: 27.478 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV010643.D
Acq: 03 May 2019 01:21

Tgt Ion: 62 Resp: 66089
Ion Ratio Lower Upper
62 100
98 10.4 6.6 10.0#





#30

Cyclohexane

Concen: 20.347 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

Instrument :

MSVOA_V

ClientSampleId :

VSTD02581

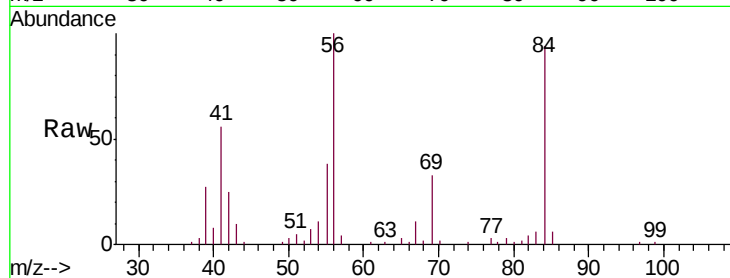
Tgt Ion: 56 Resp: 56425

Ion Ratio Lower Upper

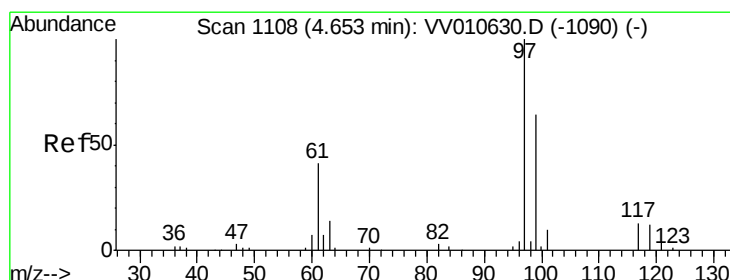
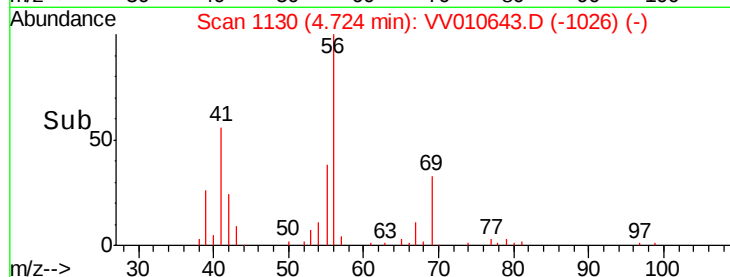
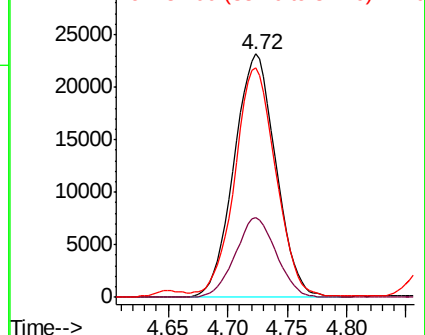
56 100

69 32.0 25.0 37.6

84 93.2 71.6 107.4



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



#31

1,1,1-Trichloroethane

Concen: 23.587 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

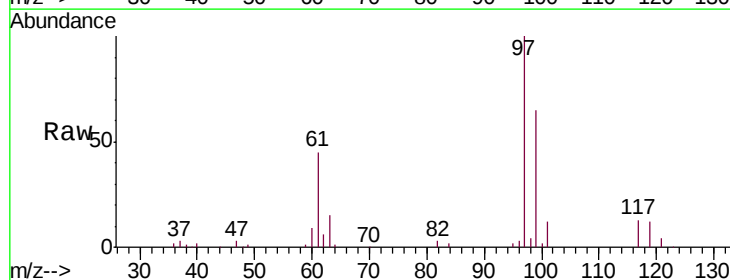
Tgt Ion: 97 Resp: 72652

Ion Ratio Lower Upper

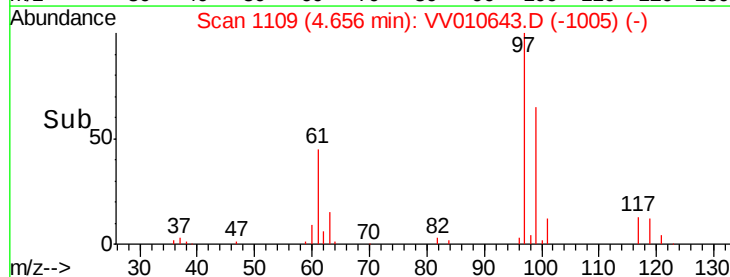
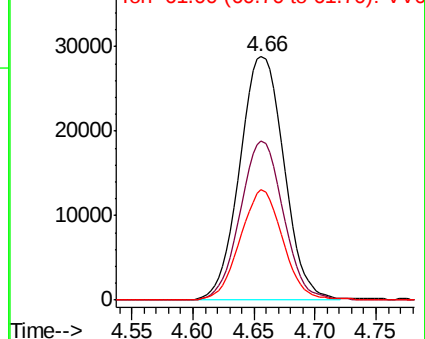
97 100

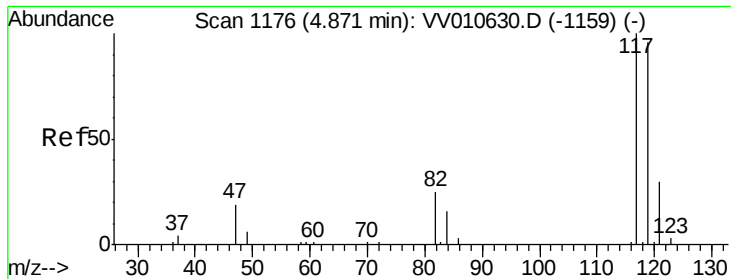
99 63.5 50.3 75.5

61 43.7 34.1 51.1



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: 22.668 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

Instrument :

MSVOA_V

ClientSampleId :

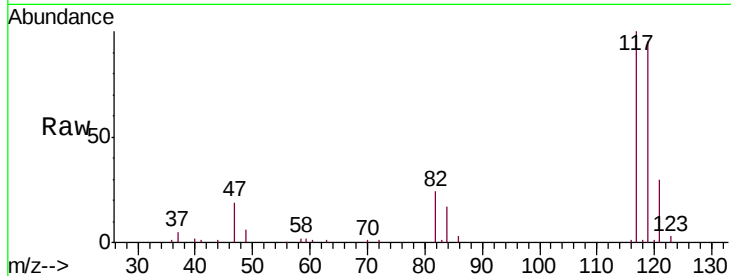
VSTD02581

Tgt Ion:117 Resp: 62501

Ion Ratio Lower Upper

117 100

119 95.0 76.8 115.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

4.87

25000

20000

15000

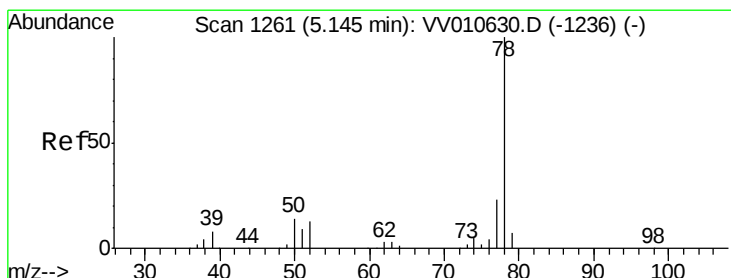
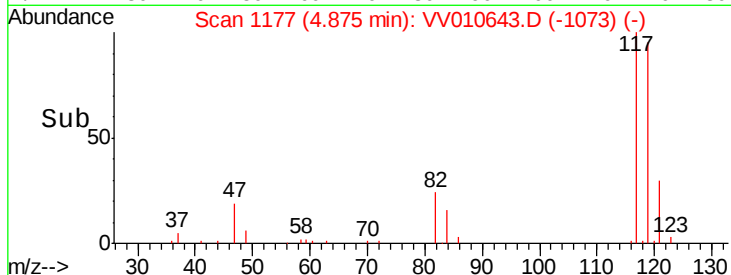
10000

5000

0

4.80 4.85 4.90 4.95

Time-->



#34

Benzene

Concen: 24.415 ug/L

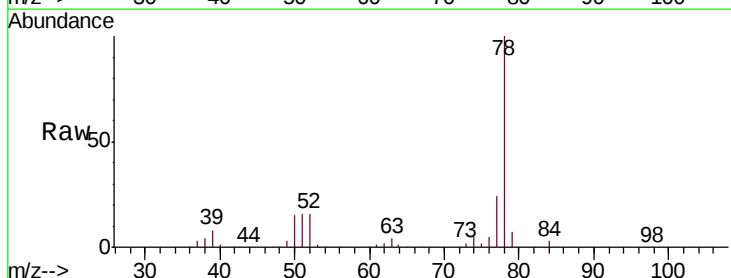
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

Tgt Ion: 78 Resp: 184021



Abundance Ion 78.00 (77.70 to 78.70): VV0

100000

80000

60000

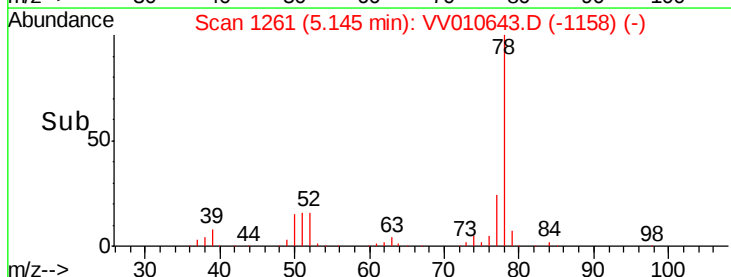
40000

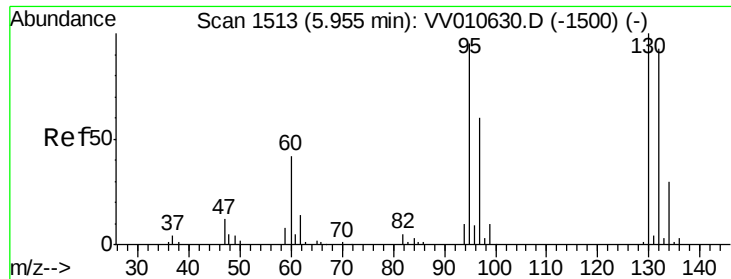
20000

0

5.00 5.10 5.20

Time-->





#35

Trichloroethene

Concen: 23.652 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

Instrument :

MSVOA_V

ClientSampleId :

VSTD02581

Tgt Ion: 95 Resp: 50850

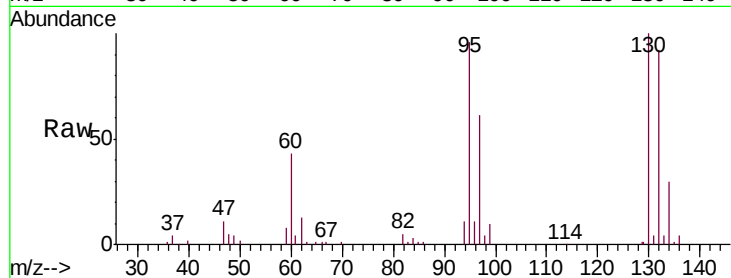
Ion Ratio Lower Upper

95 100

97 63.5 45.0 83.6

132 99.9 69.9 129.9

130 102.1 71.3 132.3

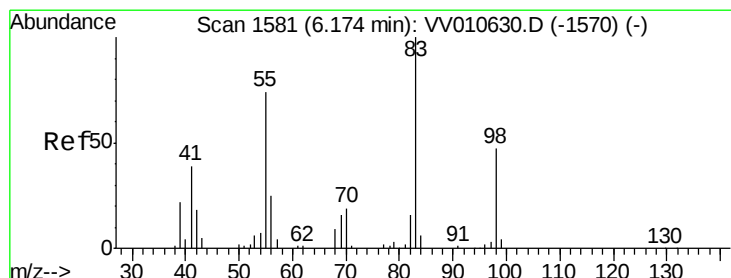
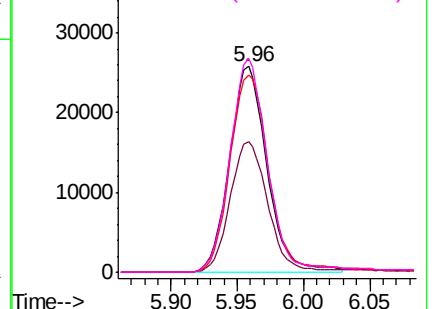
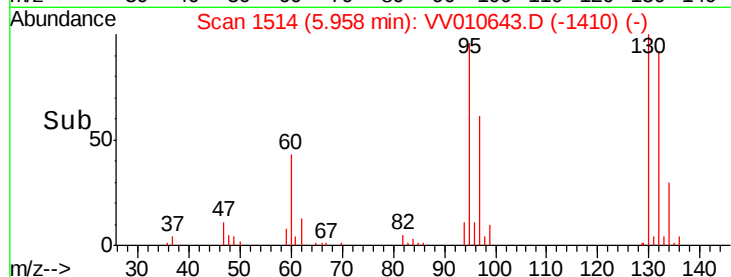


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 20.440 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

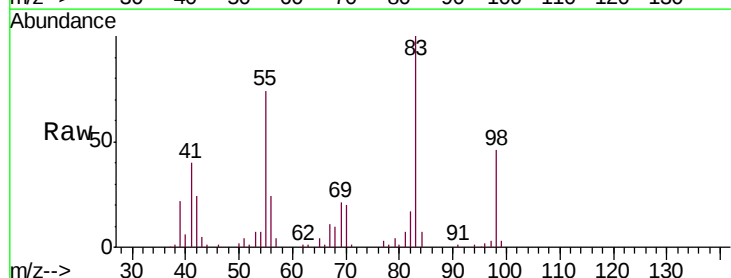
Tgt Ion: 83 Resp: 62788

Ion Ratio Lower Upper

83 100

55 75.8 61.4 92.0

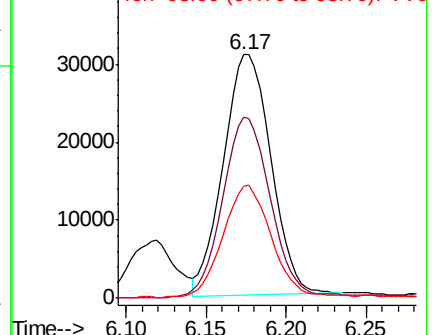
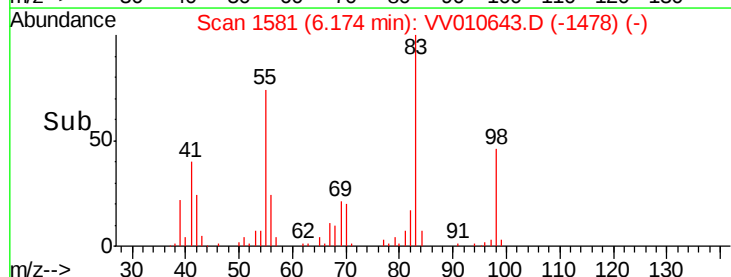
98 47.4 37.4 56.2

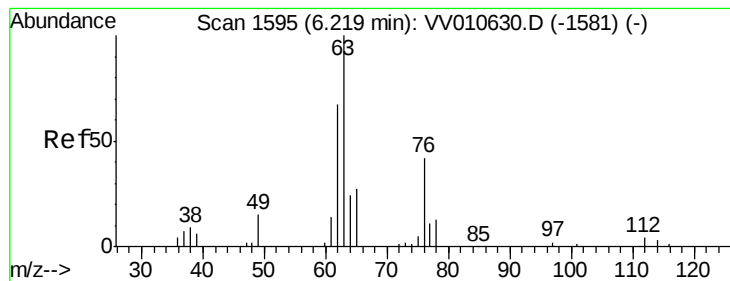


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#40

1,2-Dichloropropane

Concen: 26.246 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

Instrument :

MSVOA_V

ClientSampleId :

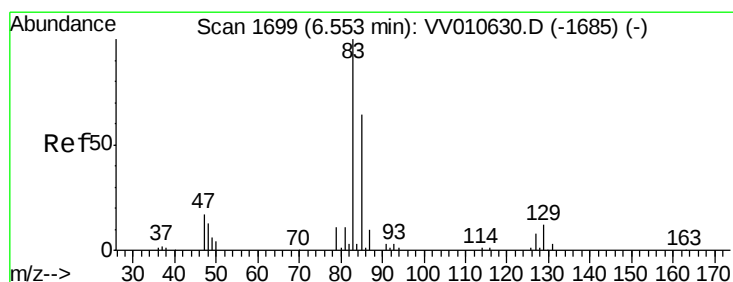
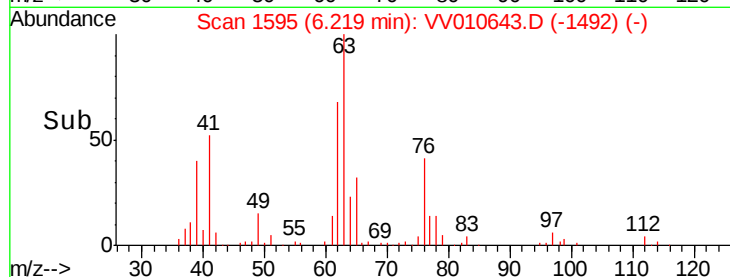
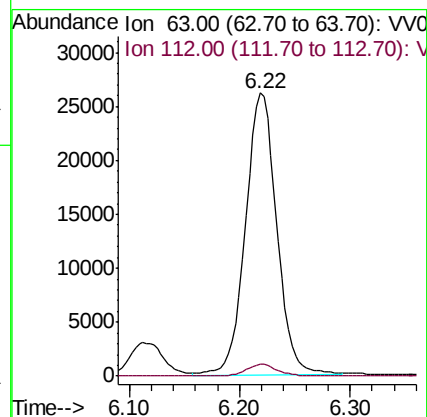
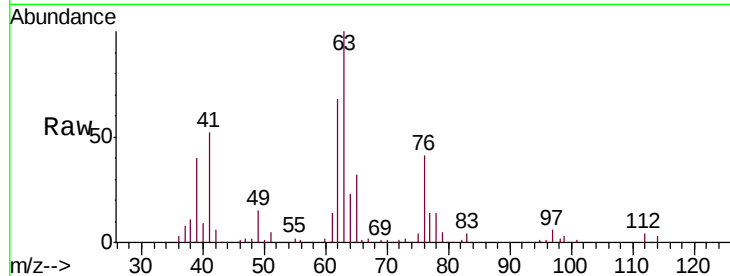
VSTD02581

Tgt Ion: 63 Resp: 51453

Ion Ratio Lower Upper

63 100

112 4.0 3.4 5.0



#41

Bromodichloromethane

Concen: 26.411 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

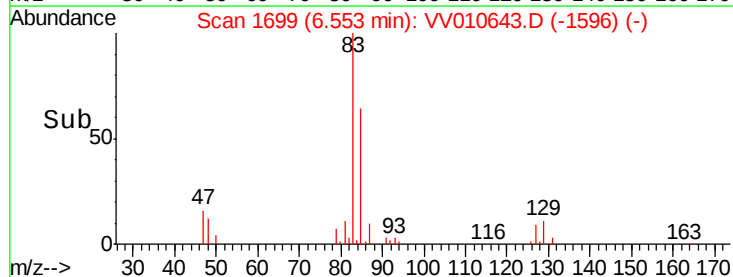
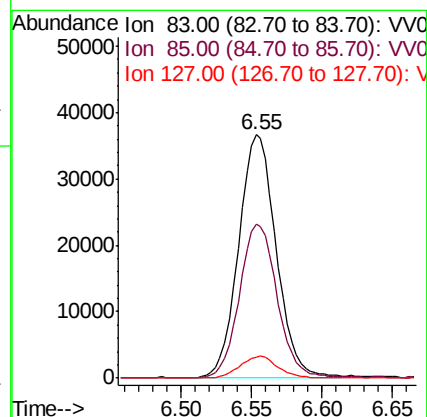
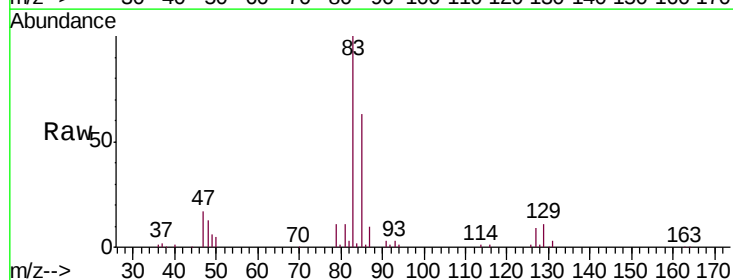
Tgt Ion: 83 Resp: 68559

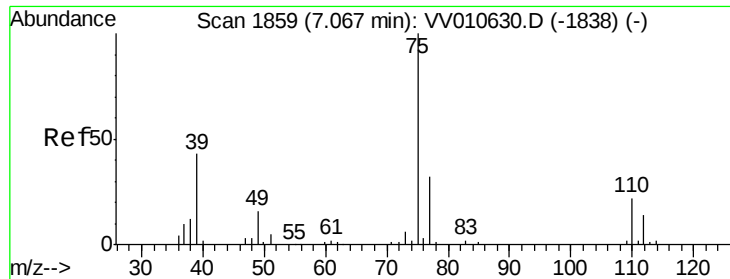
Ion Ratio Lower Upper

83 100

85 63.0 45.1 83.9

127 8.8 7.2 10.8



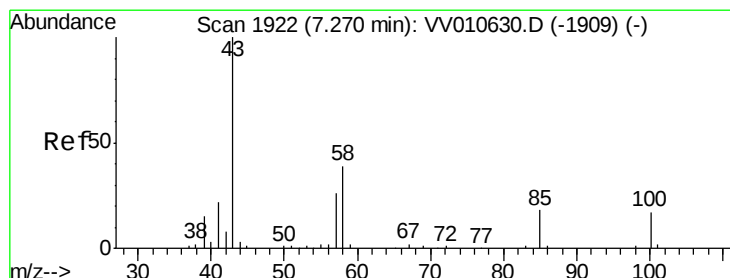
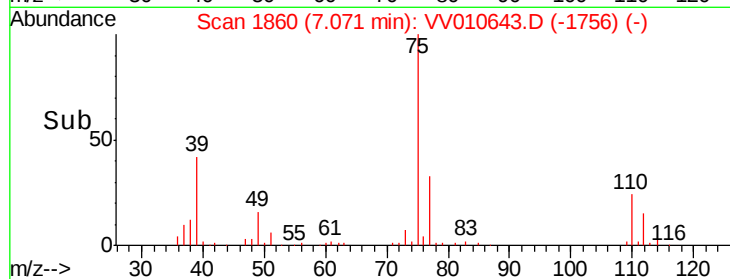
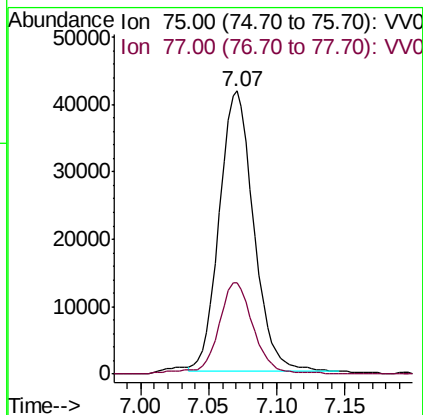
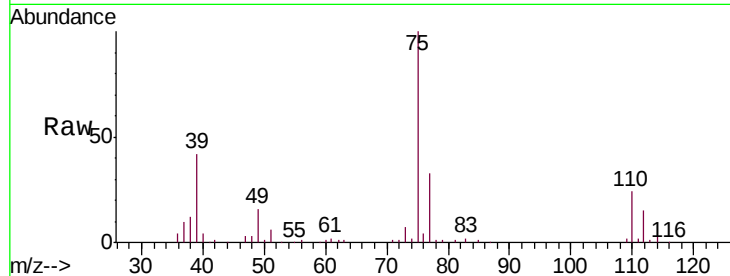


#42

cis-1,3-Dichloropropene
Concen: 25.554 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VV010643.D
Acq: 03 May 2019 01:21

Instrument :
MSVOA_V
ClientSampleId :
VSTD02581

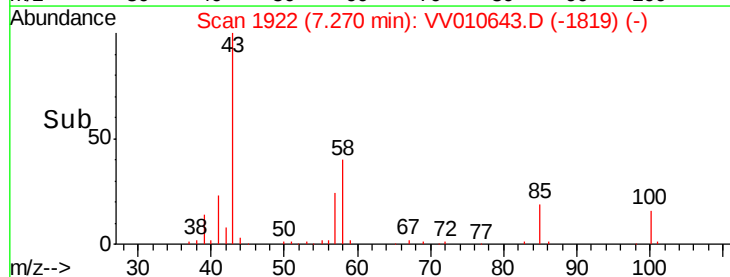
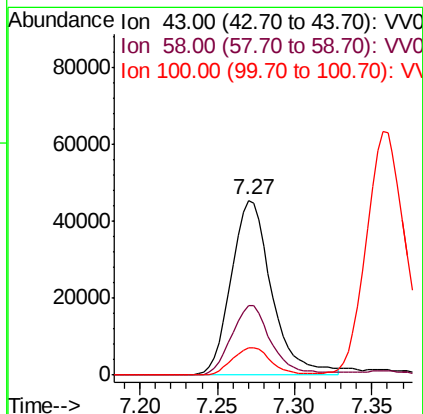
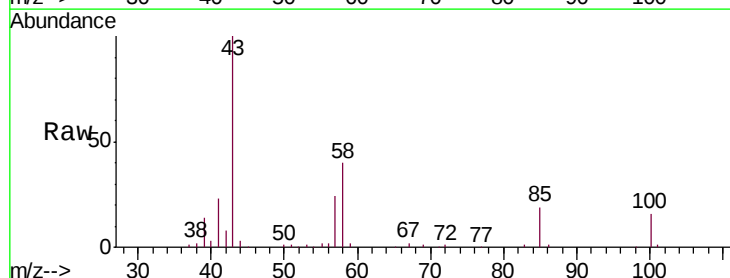
Tgt Ion: 75 Resp: 73279
Ion Ratio Lower Upper
75 100
77 32.5 21.8 40.4

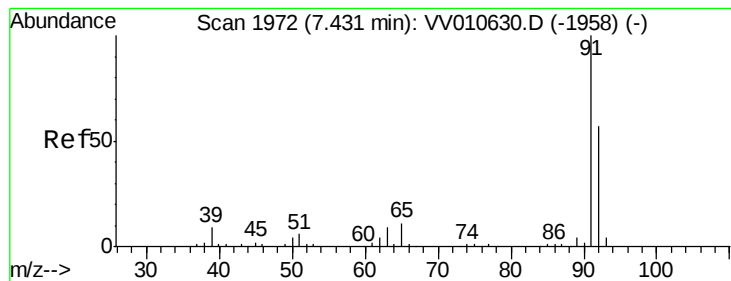


#43

4-Methyl-2-pentanone
Concen: 59.881 ug/L
RT: 7.27 min Scan# 1922
Delta R.T. 0.00 min
Lab File: VV010643.D
Acq: 03 May 2019 01:21

Tgt Ion: 43 Resp: 82656
Ion Ratio Lower Upper
43 100
58 39.3 29.6 44.4
100 15.2 11.2 16.8





#44

Toluene

Concen: 24.815 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

Instrument :

MSVOA_V

ClientSampleId :

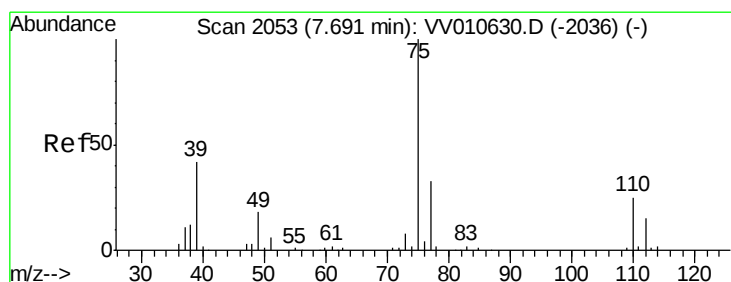
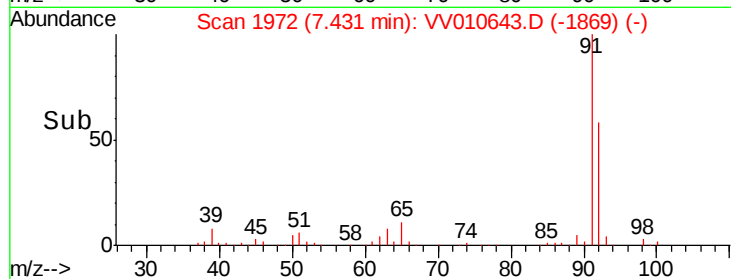
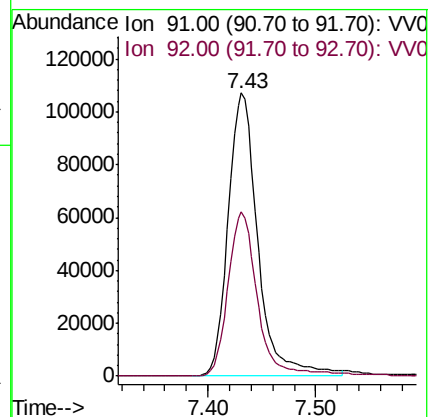
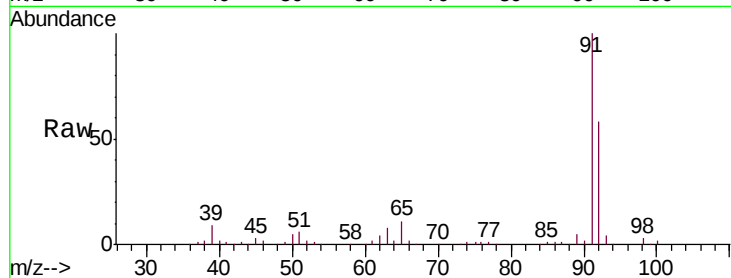
VSTD02581

Tgt Ion: 91 Resp: 206425

Ion Ratio Lower Upper

91 100

92 57.9 40.1 74.5



#45

trans-1,3-Dichloropropene

Concen: 26.972 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV010643.D

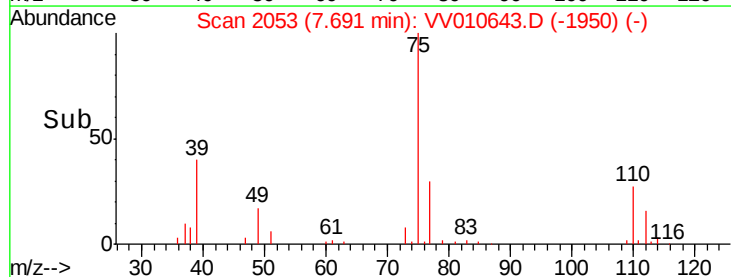
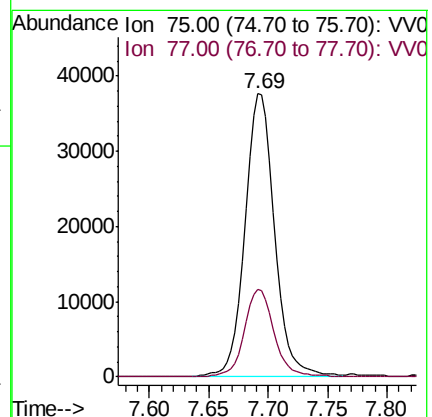
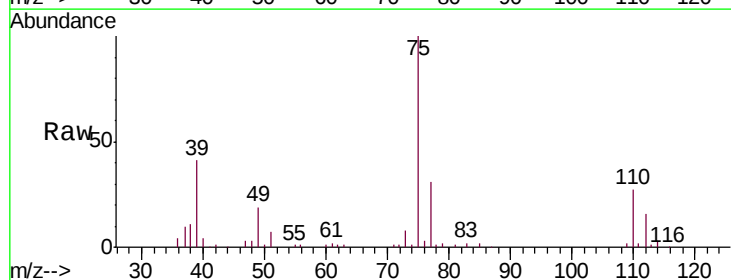
Acq: 03 May 2019 01:21

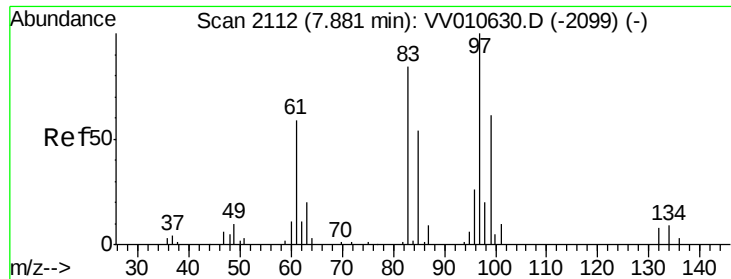
Tgt Ion: 75 Resp: 65094

Ion Ratio Lower Upper

75 100

77 31.0 21.8 40.6

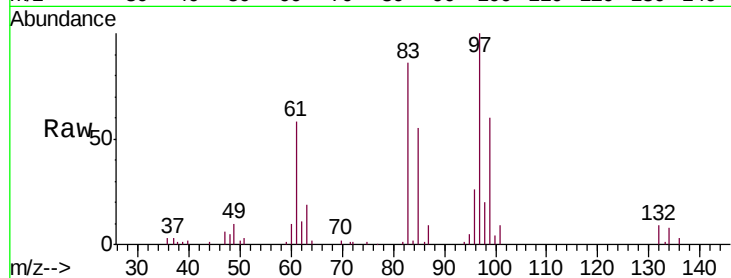




#46
 1,1,2-Trichloroethane
 Concen: 29.024 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV010643.D
 Acq: 03 May 2019 01:21

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02581

Tgt Ion:	97	Resp:	47513
Ion	Ratio	Lower	Upper
97	100		
83	85.8	62.1	115.3
85	54.5	39.8	74.0
99	60.1	44.2	82.0



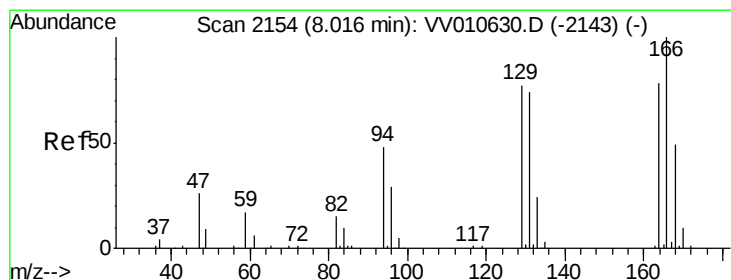
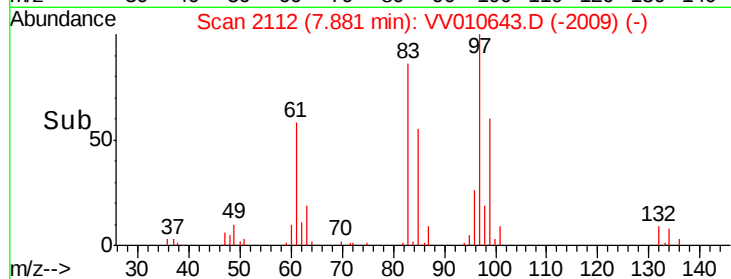
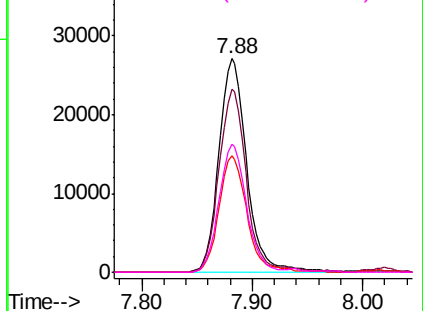
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

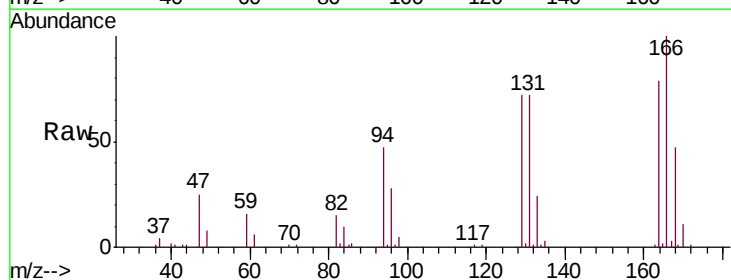
Ion 85.00 (84.70 to 85.70): VV0

Ion 99.00 (98.70 to 99.70): VV0



#47
 Tetrachloroethene
 Concen: 22.373 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VV010643.D
 Acq: 03 May 2019 01:21

Tgt Ion:	164	Resp:	37494
Ion	Ratio	Lower	Upper
164	100		
129	91.4	67.5	125.4
131	91.2	65.1	120.9
166	127.1	86.0	159.6



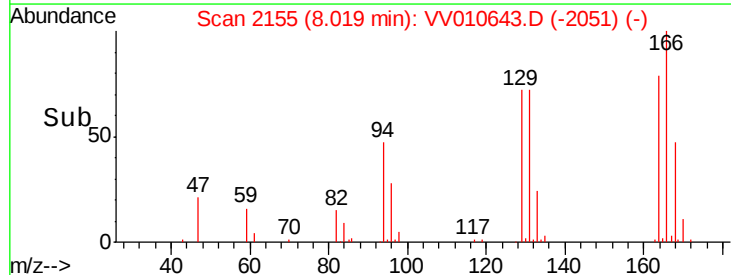
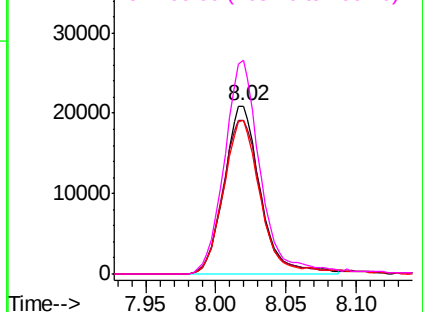
Abundance

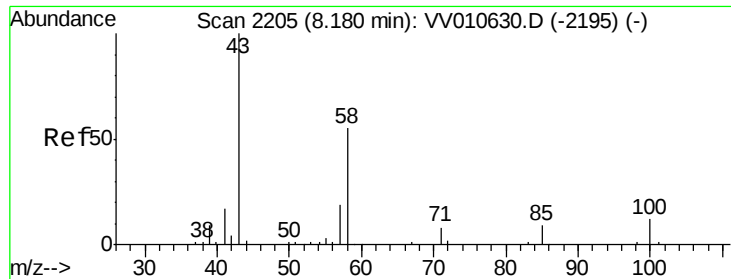
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

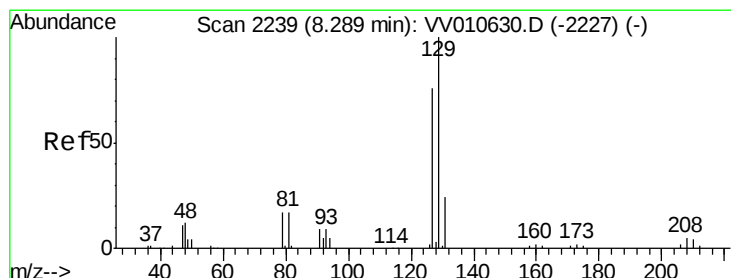
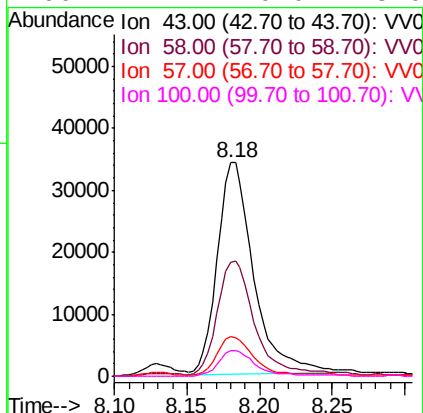
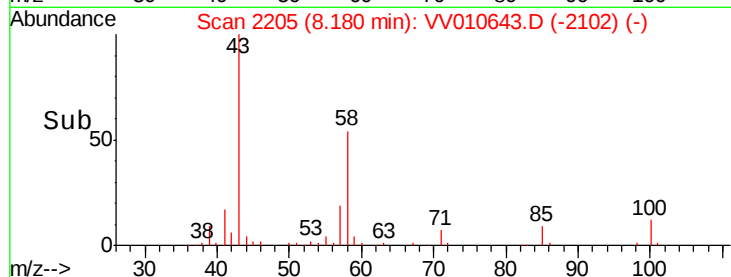
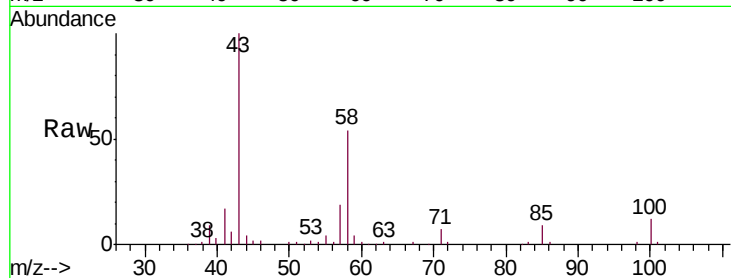




#49
2-Hexanone
Concen: 57.966 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.00 min
Lab File: VV010643.D
Acq: 03 May 2019 01:21

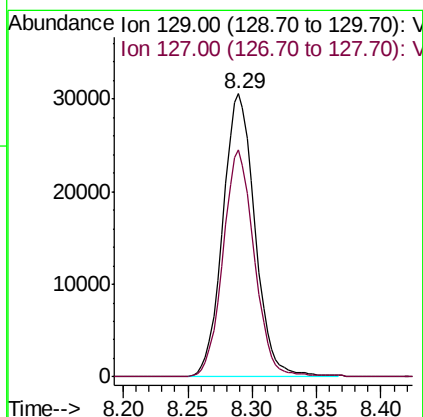
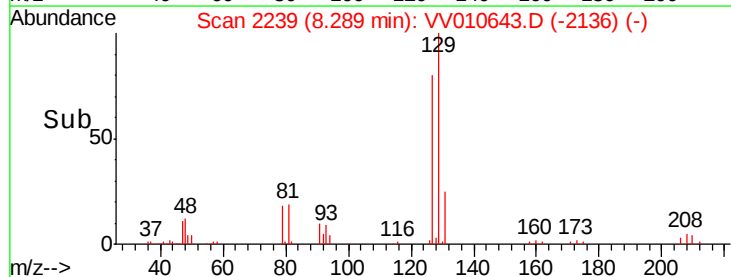
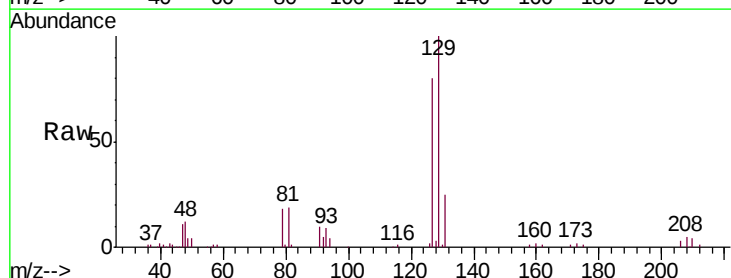
Instrument :
MSVOA_V
ClientSampleId :
VSTD02581

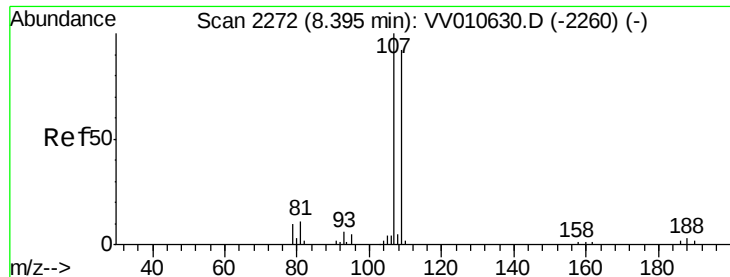
Tgt Ion: 43 Resp: 59481
Ion Ratio Lower Upper
43 100
58 53.4 42.5 63.7
57 17.6 14.4 21.6
100 12.1 10.0 15.0



#50
Dibromochloromethane
Concen: 27.265 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV010643.D
Acq: 03 May 2019 01:21

Tgt Ion: 129 Resp: 52931
Ion Ratio Lower Upper
129 100
127 80.1 53.9 100.1





#51

1,2-Dibromoethane

Concen: 28.420 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

Instrument :

MSVOA_V

ClientSampleId :

VSTD02581

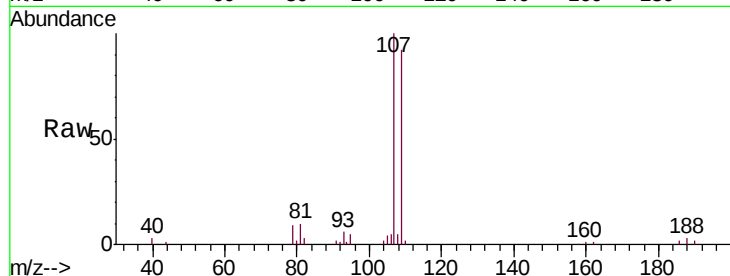
Tgt Ion:107 Resp: 44875

Ion Ratio Lower Upper

107 100

109 91.5 68.7 127.7

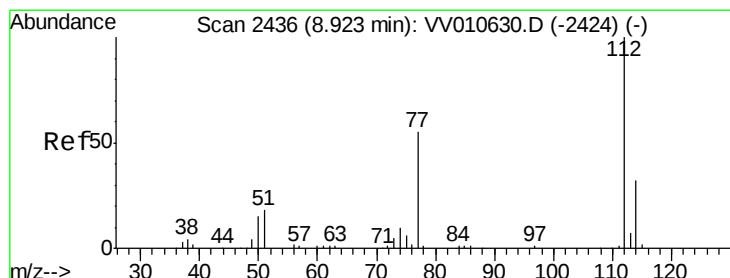
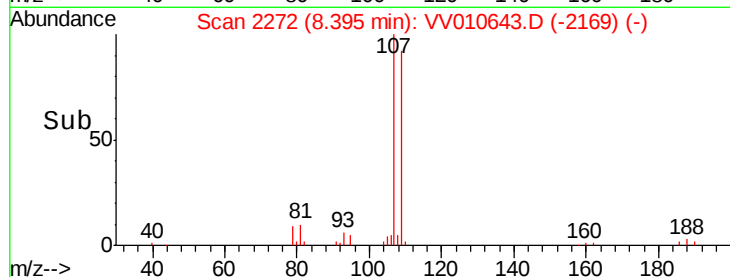
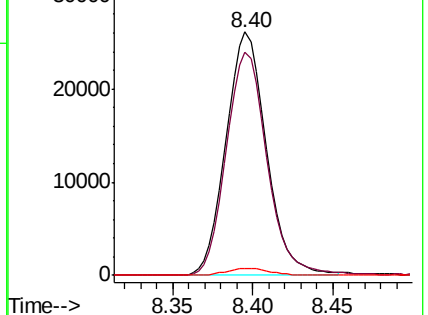
188 3.0 3.0 4.4



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: 24.886 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

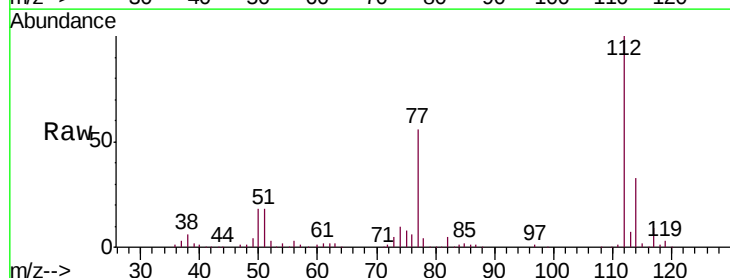
Tgt Ion:112 Resp: 144482

Ion Ratio Lower Upper

112 100

77 55.6 44.5 66.7

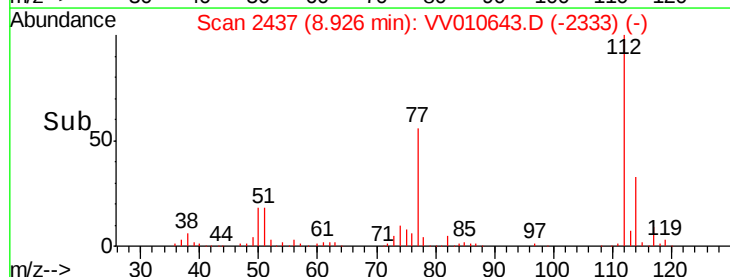
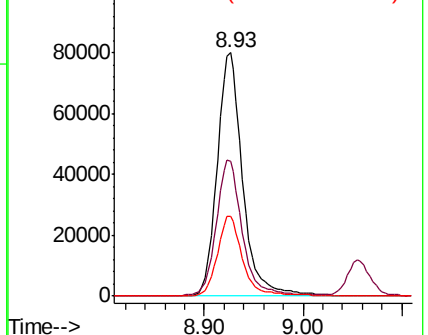
114 33.0 22.5 41.7

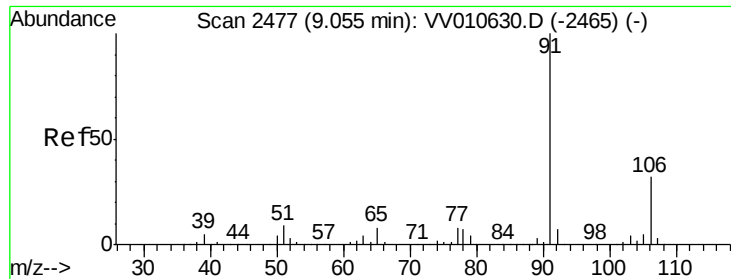


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 24.239 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

Instrument :

MSVOA_V

ClientSampleId :

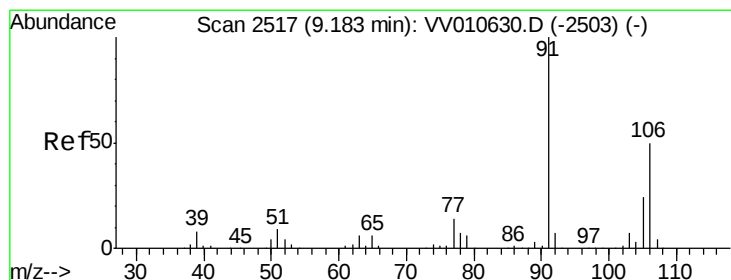
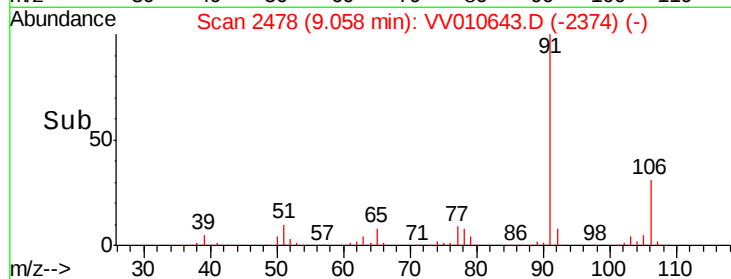
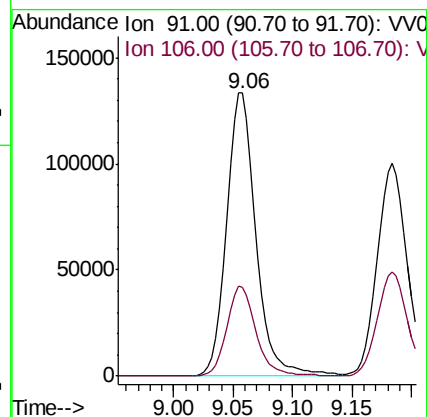
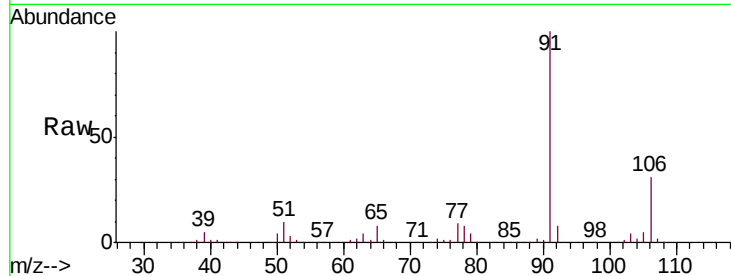
VSTD02581

Tgt Ion: 91 Resp: 228050

Ion Ratio Lower Upper

91 100

106 31.5 22.0 41.0



#54

m,p-Xylene

Concen: 24.226 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV010643.D

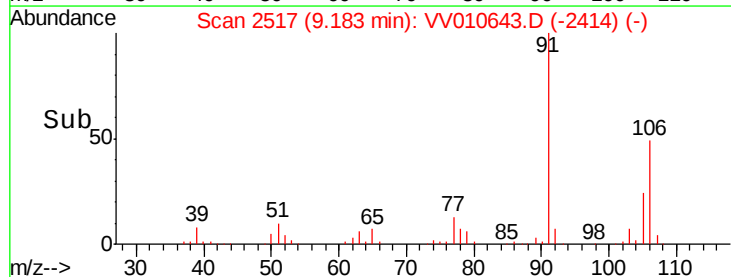
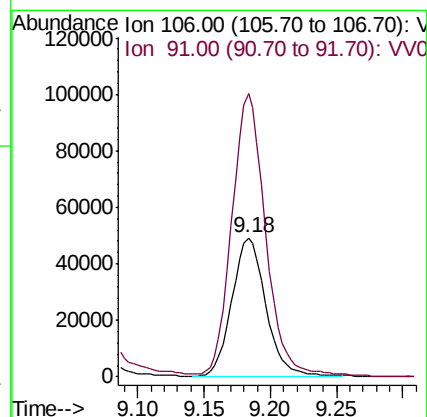
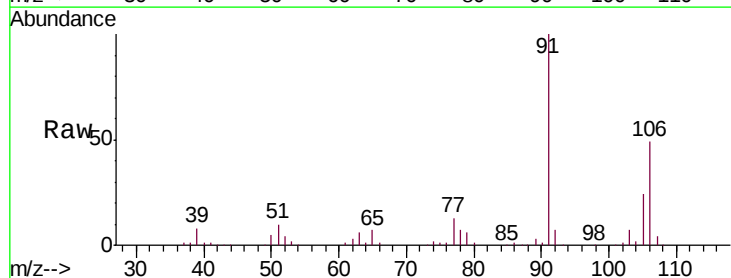
Acq: 03 May 2019 01:21

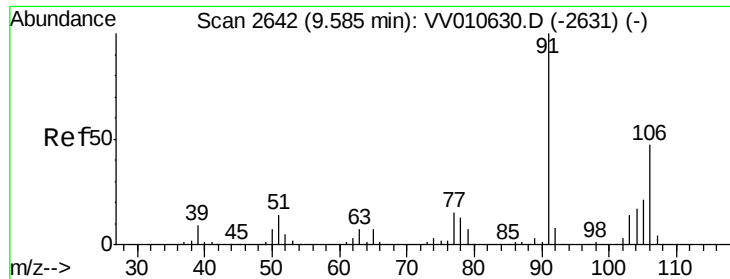
Tgt Ion: 106 Resp: 86365

Ion Ratio Lower Upper

106 100

91 203.3 140.4 260.8

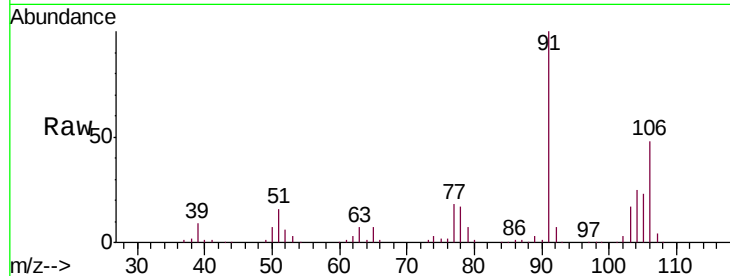




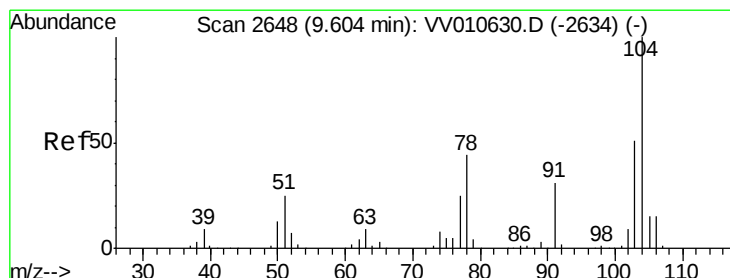
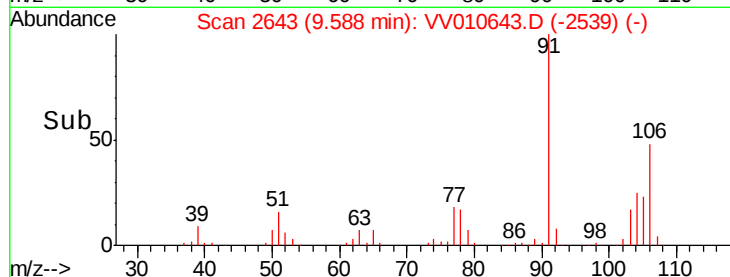
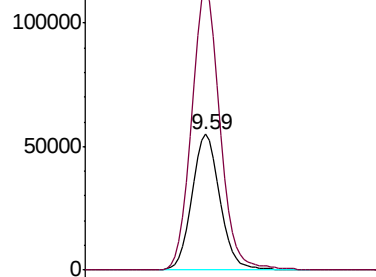
#55
o-xylene
Concen: 25.909 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.00 min
Lab File: VV010643.D
Acq: 03 May 2019 01:21

Instrument :
MSVOA_V
ClientSampleId :
VSTD02581

Tgt Ion:106 Resp: 90239
Ion Ratio Lower Upper
106 100
91 208.2 147.3 273.5

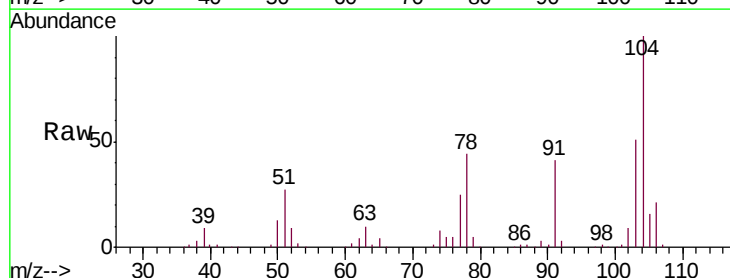


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

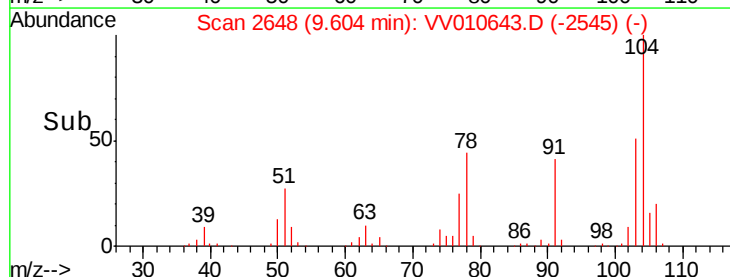
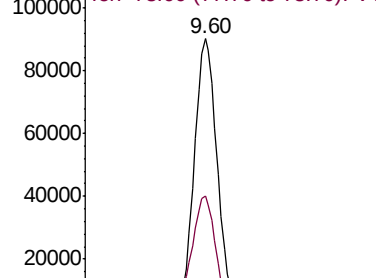


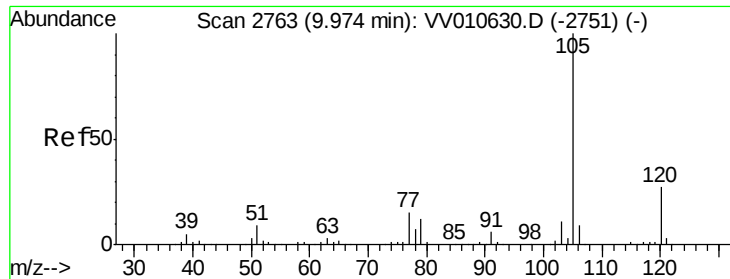
#56
Styrene
Concen: 26.419 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV010643.D
Acq: 03 May 2019 01:21

Tgt Ion:104 Resp: 156165
Ion Ratio Lower Upper
104 100
78 44.3 30.4 56.5



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





#57

Isopropylbenzene

Concen: 24.686 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

Instrument :

MSVOA_V

ClientSampleId :

VSTD02581

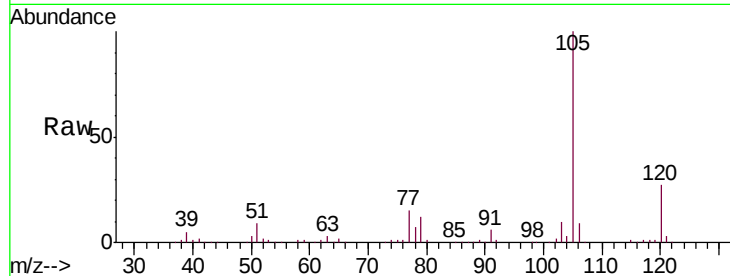
Tgt Ion:105 Resp: 225622

Ion Ratio Lower Upper

105 100

120 27.2 21.7 32.5

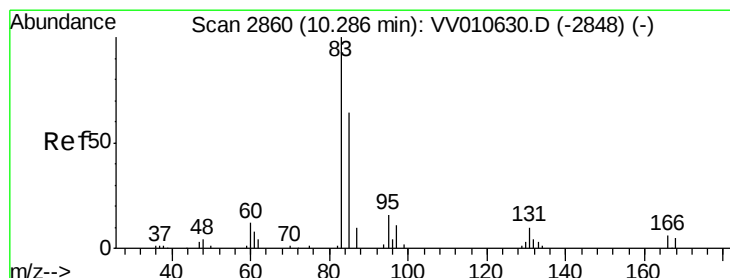
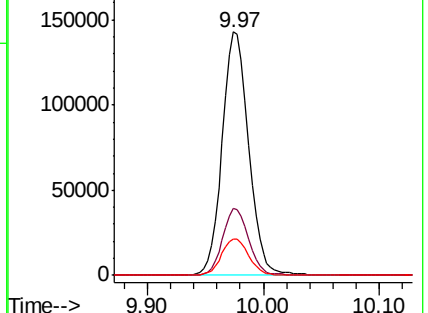
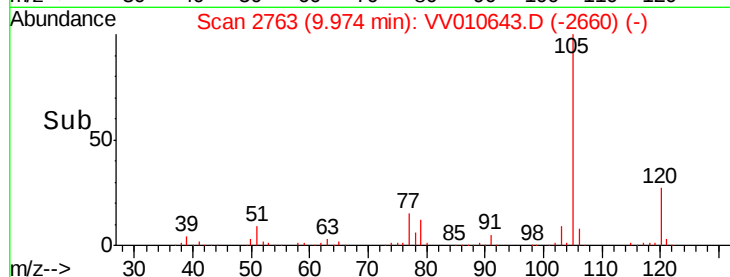
77 15.6 12.3 18.5



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: 28.726 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

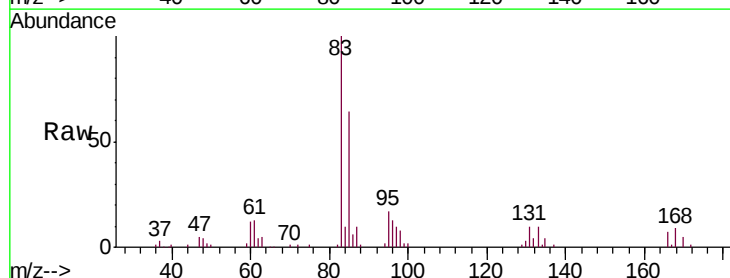
Tgt Ion: 83 Resp: 58662

Ion Ratio Lower Upper

83 100

85 64.4 46.5 86.3

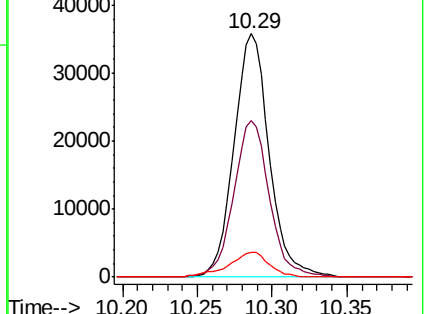
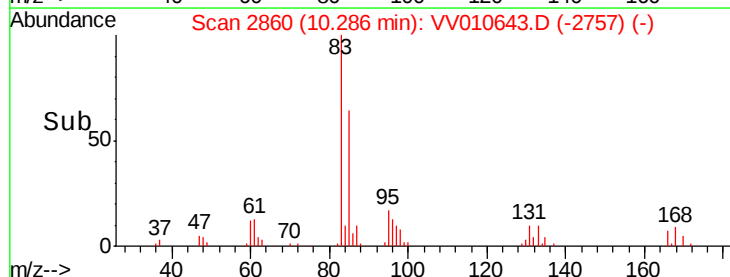
131 10.3 8.4 12.6

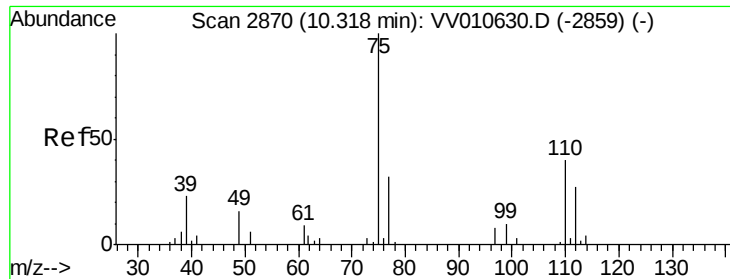


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 30.058 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

Instrument :

MSVOA_V

ClientSampleId :

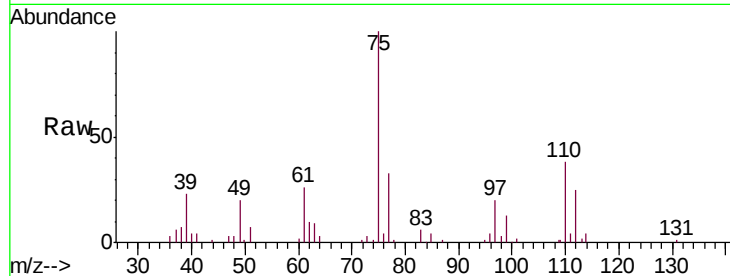
VSTD02581

Tgt Ion: 75 Resp: 46177

Ion Ratio Lower Upper

75 100

77 32.2 25.6 38.4

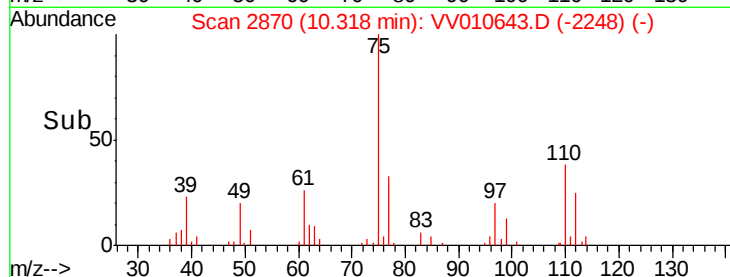


Abundance Ion 75.00 (74.70 to 75.70): VV010630.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV010630.D (-2859) (-)

10.32

Time-->

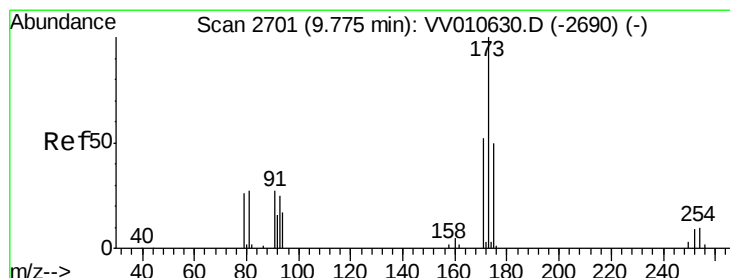


Abundance Ion 75.00 (74.70 to 75.70): VV010643.D (-2248) (-)

Ion 77.00 (76.70 to 77.70): VV010643.D (-2248) (-)

10.32

Time-->



#62

Bromoform

Concen: 28.026 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

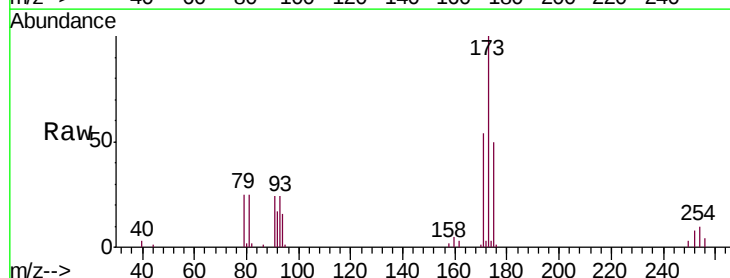
Tgt Ion: 173 Resp: 29994

Ion Ratio Lower Upper

173 100

175 50.2 37.9 56.9

254 9.3 5.9 8.9#



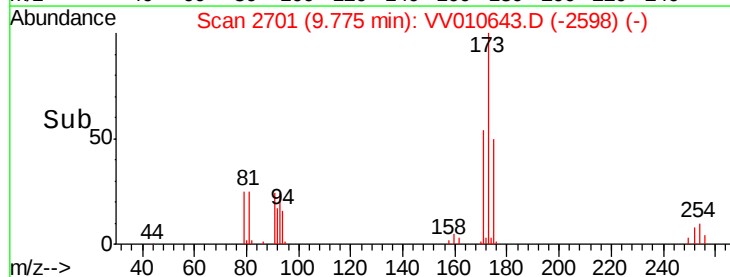
Abundance Ion 173.00 (172.70 to 173.70): VV010630.D (-2690) (-)

Ion 175.00 (174.70 to 175.70): VV010630.D (-2690) (-)

Ion 254.00 (253.70 to 254.70): VV010630.D (-2690) (-)

9.77

Time-->



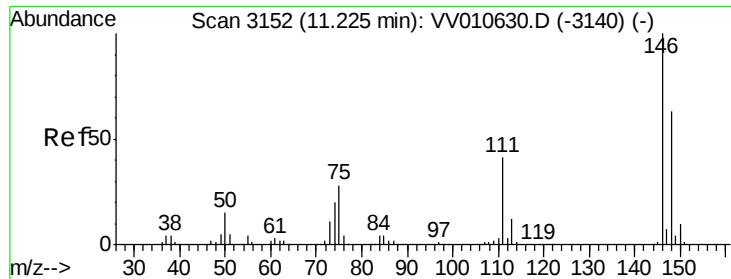
Abundance Ion 173.00 (172.70 to 173.70): VV010643.D (-2598) (-)

Ion 175.00 (174.70 to 175.70): VV010643.D (-2598) (-)

Ion 254.00 (253.70 to 254.70): VV010643.D (-2598) (-)

9.77

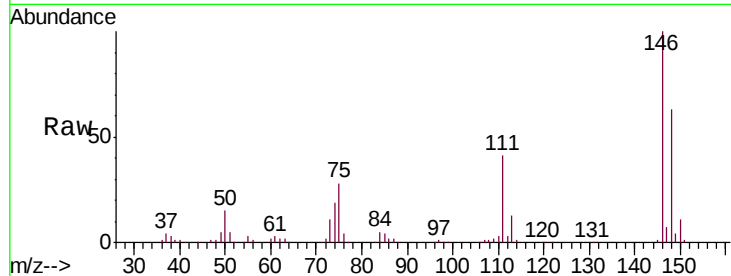
Time-->



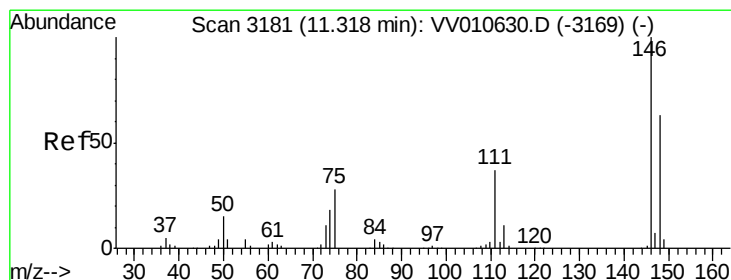
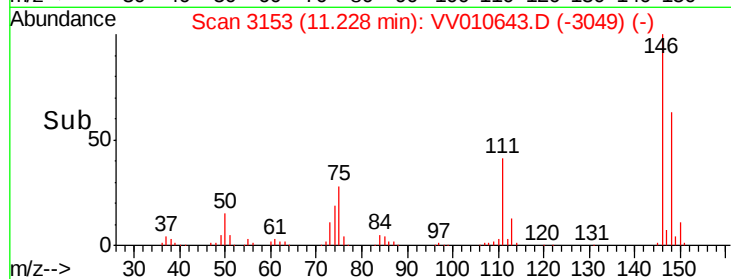
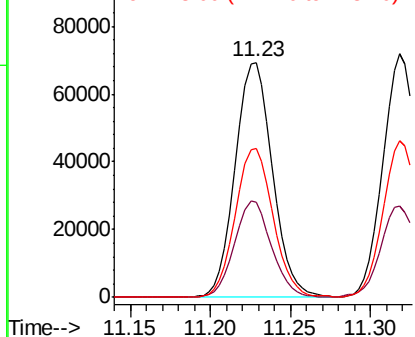
#63
 1,3-Dichlorobenzene
 Concen: 25.362 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV010643.D
 Acq: 03 May 2019 01:21

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02581

Tgt Ion:146 Resp: 110438
 Ion Ratio Lower Upper
 146 100
 111 40.6 28.3 52.7
 148 63.1 44.4 82.5

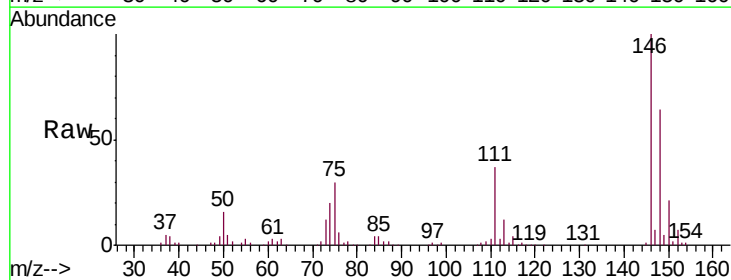


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

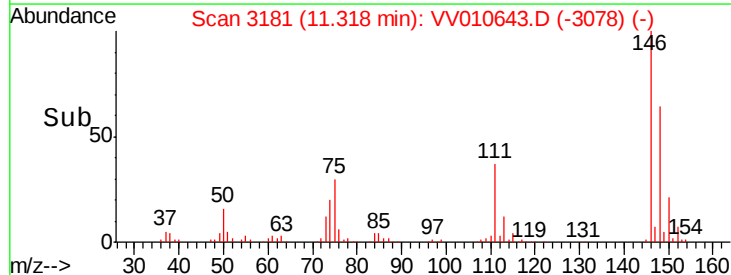
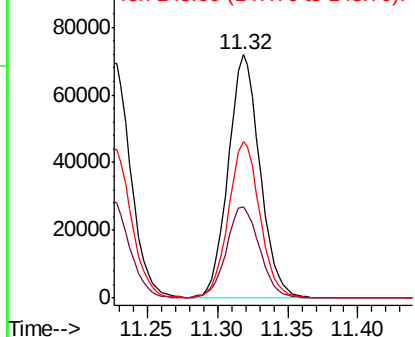


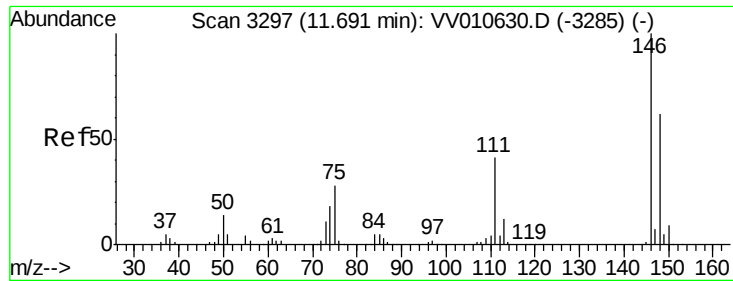
#64
 1,4-Dichlorobenzene
 Concen: 24.888 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV010643.D
 Acq: 03 May 2019 01:21

Tgt Ion:146 Resp: 113170
 Ion Ratio Lower Upper
 146 100
 111 37.3 27.6 51.4
 148 64.1 44.0 81.8



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

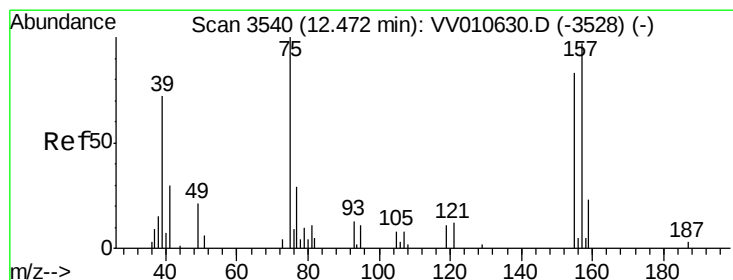
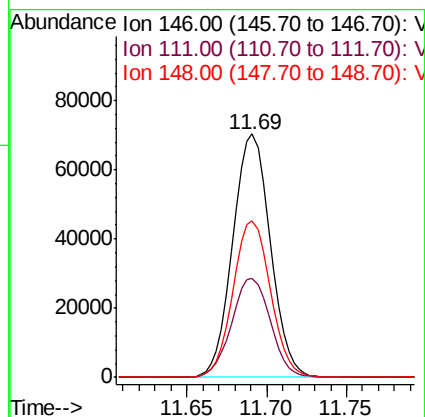
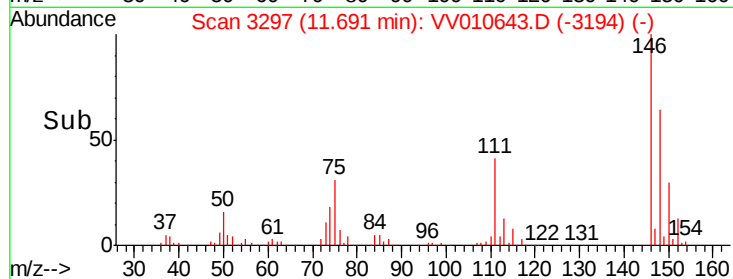
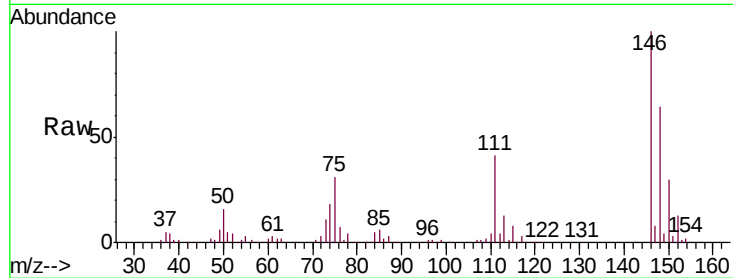




#65
 1,2-Dichlorobenzene
 Concen: 26.202 ug/L
 RT: 11.69 min Scan# 3297
 Delta R.T. 0.00 min
 Lab File: VV010643.D
 Acq: 03 May 2019 01:21

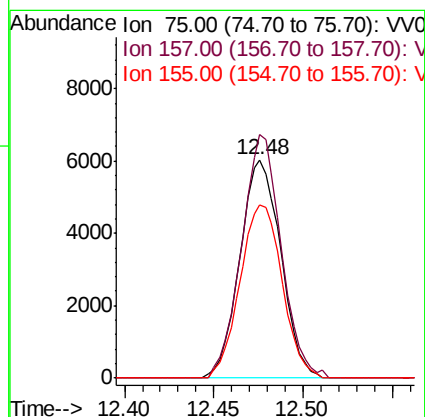
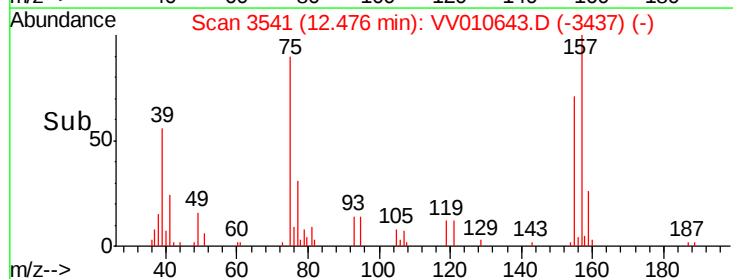
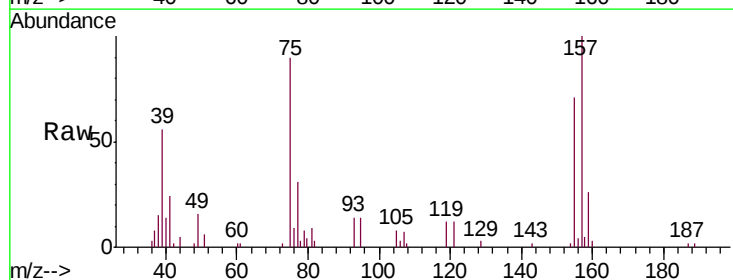
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02581

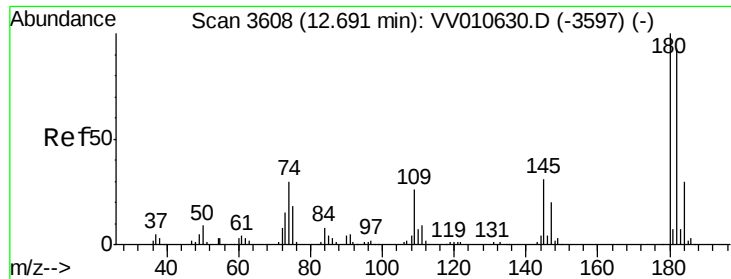
Tgt Ion: 146 Resp: 112644
 Ion Ratio Lower Upper
 146 100
 111 40.6 32.7 49.1
 148 64.4 51.0 76.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 30.395 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.00 min
 Lab File: VV010643.D
 Acq: 03 May 2019 01:21

Tgt Ion: 75 Resp: 9610
 Ion Ratio Lower Upper
 75 100
 157 111.6 91.1 136.7
 155 79.6 61.0 91.6

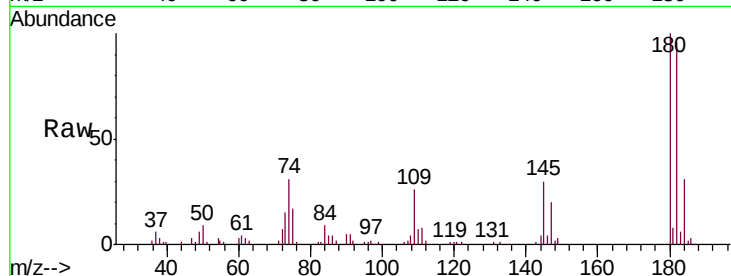




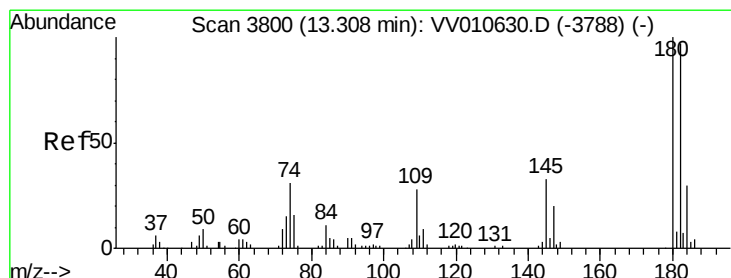
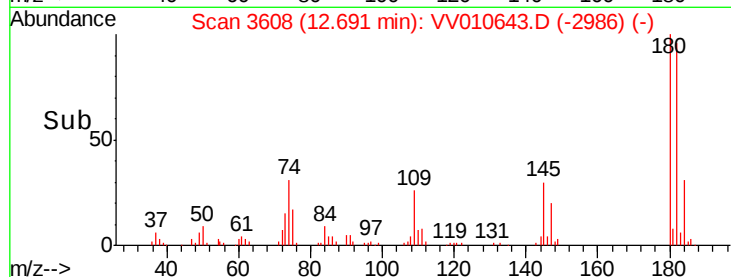
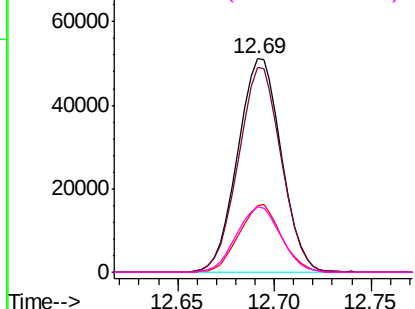
#67
 1,3,5-Trichlorobenzene
 Concen: 23.979 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV010643.D
 Acq: 03 May 2019 01:21

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02581

Tgt Ion:	180	Resp:	80169
Ion	Ratio	Lower	Upper
180	100		
182	94.9	75.2	112.8
184	30.7	23.8	35.6
145	31.2	24.5	36.7

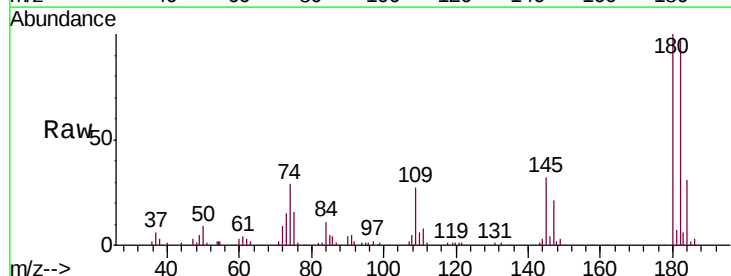


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

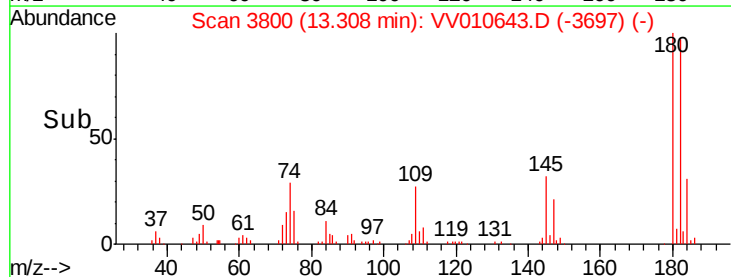
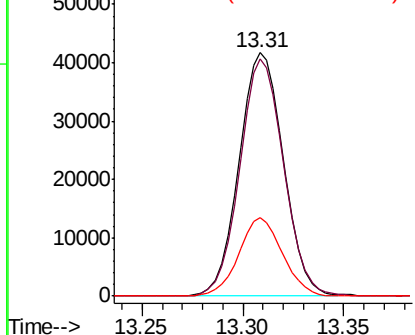


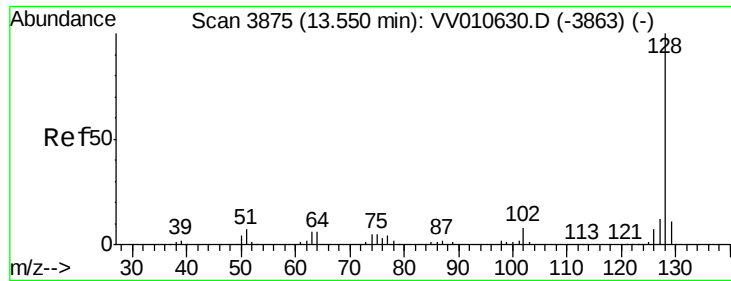
#68
 1,2,4-trichlorobenzene
 Concen: 25.190 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV010643.D
 Acq: 03 May 2019 01:21

Tgt Ion:	180	Resp:	64258
Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.1	114.1
145	31.7	26.0	39.0



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: 29.797 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

Instrument :

MSVOA_V

ClientSampleId :

VSTD02581

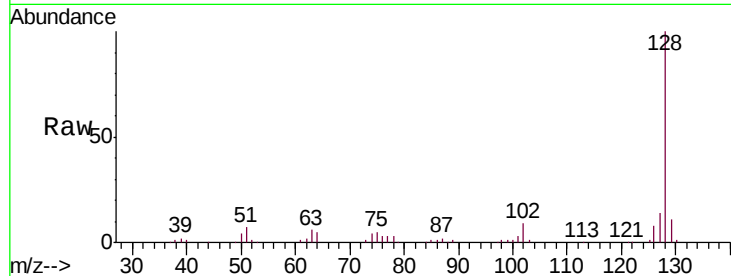
Tgt Ion:128 Resp: 145336

Ion Ratio Lower Upper

128 100

129 11.0 8.6 13.0

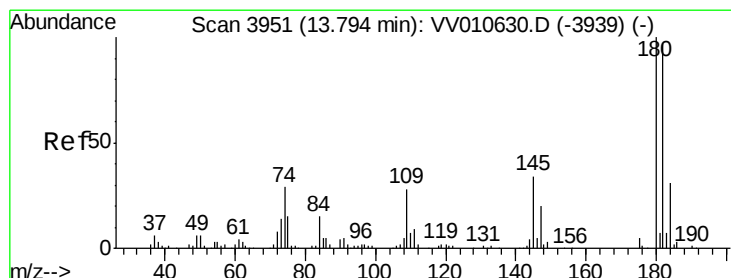
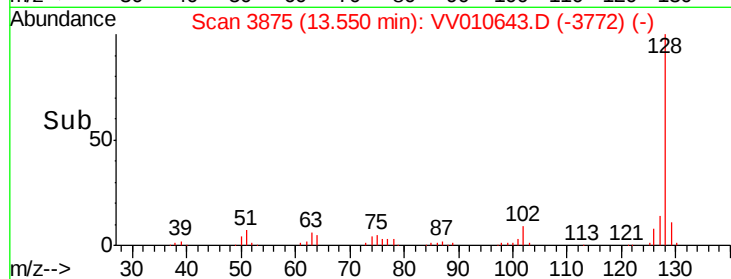
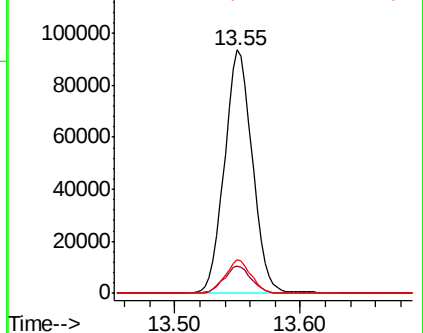
127 12.8 10.6 15.8



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: 26.970 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV010643.D

Acq: 03 May 2019 01:21

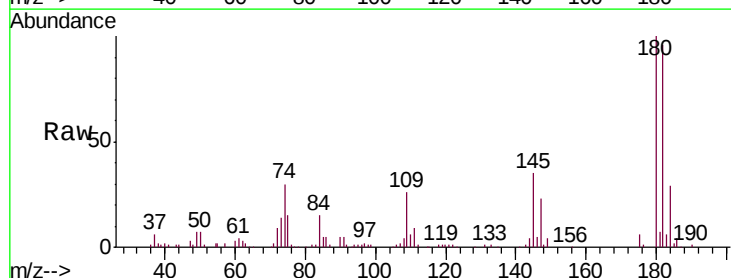
Tgt Ion:180 Resp: 64894

Ion Ratio Lower Upper

180 100

182 94.8 79.0 118.6

145 34.2 28.2 42.4



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

