

Data File : VV011042.D
Acq On : 23 May 2019 22:41
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02572

Quant Time: May 24 08:21:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis
QLast Update : Fri May 24 08:16:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	111475	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	117985	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	56073	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	26518	20.87	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	83.48%
7) Chloroethane-d5	1.56	69	20000	23.24	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.96%
10) 1,1-Dichloroethene-d2	2.12	63	52401	21.44	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	85.76%
20) 2-Butanone-d5	3.93	46	26694	60.87	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	121.74%
24) Chloroform-d	4.40	84	71651	24.81	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	99.24%
26) 1,2-Dichloroethane-d4	5.08	65	43751	25.71	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	102.84%
29) Benzene-d6	5.09	84	158932	24.67	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	98.68%
33) 1,2-Dichloropropane-d6	6.11	67	51458	25.14	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	100.56%
37) Toluene-d8	7.36	98	145104	24.23	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	96.92%
38) trans-1,3-Dichloropropene-	7.66	79	20199	24.04	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	96.16%
39) 2-Hexanone-d5	8.13	63	19550	51.21	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	102.42%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	52753	25.82	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	103.28%
61) 1,2-Dichlorobenzene-d4	11.67	152	54853	24.09	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	96.36%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	32667	19.849 ug/L	99
3) Chloromethane	1.25	50	32345	21.697 ug/L	99
5) Vinyl chloride	1.32	62	32365	21.617 ug/L	96
6) Bromomethane	1.51	94	9538	18.270 ug/L	98
8) Chloroethane	1.58	64	17662	23.575 ug/L	98
9) Trichlorofluoromethane	1.75	101	48852	20.472 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	28300	20.797 ug/L	95
12) 1,1-Dichloroethene	2.13	96	25579	21.744 ug/L	96
13) Acetone	2.19	43	19663	46.498 ug/L	99
14) Carbon disulfide	2.31	76	67176	20.392 ug/L	98
15) Methyl Acetate	2.45	43	21472	26.427 ug/L	99
16) Methylene chloride	2.53	84	44706	23.368 ug/L	98
17) Methyl tert-butyl Ether	2.80	73	106240	25.524 ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	37074	22.845 ug/L	96
19) 1,1-Dichloroethane	3.22	63	72971	24.695 ug/L	98
21) 2-Butanone	4.02	43	28550	49.335 ug/L	91
22) cis-1,2-Dichloroethene	3.96	96	45101	24.961 ug/L	99

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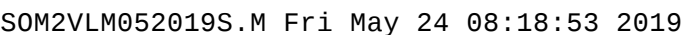
Instrument :
MSVOA_V
ClientSampleId :
VSTD02572

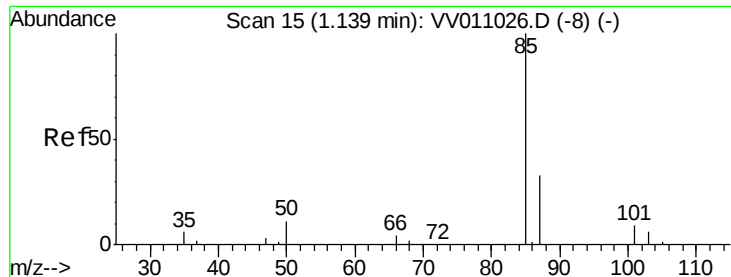
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Quant Title : VOC Analysis
QLast Update : Fri May 24 08:16:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	21247	24.813	ug/L	92
25) Chloroform	4.42	83	87495	26.168	ug/L	99
27) 1,2-Dichloroethane	5.18	62	52820	25.698	ug/L	99
30) Cyclohexane	4.72	56	49697	20.271	ug/L	100
31) 1,1,1-Trichloroethane	4.65	97	58378	21.996	ug/L	99
32) Carbon tetrachloride	4.87	117	50171	20.729	ug/L	98
34) Benzene	5.14	78	165778	24.374	ug/L	100
35) Trichloroethene	5.96	95	42307	22.513	ug/L	96
36) Methylcyclohexane	6.17	83	56274	20.256	ug/L	99
40) 1,2-Dichloropropane	6.22	63	44220	24.739	ug/L	99
41) Bromodichloromethane	6.55	83	57313	23.989	ug/L	96
42) cis-1,3-Dichloropropene	7.07	75	65307	24.546	ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	63160	49.293	ug/L	99
44) Toluene	7.43	91	183443	24.304	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	53918	24.058	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	38671	25.389	ug/L	98
47) Tetrachloroethene	8.02	164	29409	20.049	ug/L	97
49) 2-Hexanone	8.18	43	44186	47.231	ug/L	99
50) Dibromochloromethane	8.29	129	41799	23.316	ug/L	98
51) 1,2-Dibromoethane	8.40	107	36409	24.719	ug/L	95
52) Chlorobenzene	8.92	112	121846	23.552	ug/L	95
53) Ethylbenzene	9.05	91	198638	24.153	ug/L	99
54) m,p-Xylene	9.18	106	75518	23.560	ug/L	96
55) o-xylene	9.59	106	76210	24.920	ug/L	96
56) Styrene	9.60	104	134488	25.517	ug/L	99
57) Isopropylbenzene	9.97	105	193504	23.985	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	50767	25.314	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	36084	24.493	ug/L	98
62) Bromoform	9.77	173	22691	22.796	ug/L	98
63) 1,3-Dichlorobenzene	11.22	146	88608	23.168	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	94551	24.005	ug/L	96
65) 1,2-Dichlorobenzene	11.69	146	90446	24.390	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	7820	26.545	ug/L	94
67) 1,3,5-Trichlorobenzene	12.69	180	63797	22.740	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	51920	23.415	ug/L	98
69) Naphthalene	13.55	128	116241	26.151	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	52607	24.301	ug/L	99

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

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#2

Dichlorodifluoromethane

Concen: 19.849 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV011042.D

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MSVOA_V

ClientSampleId :

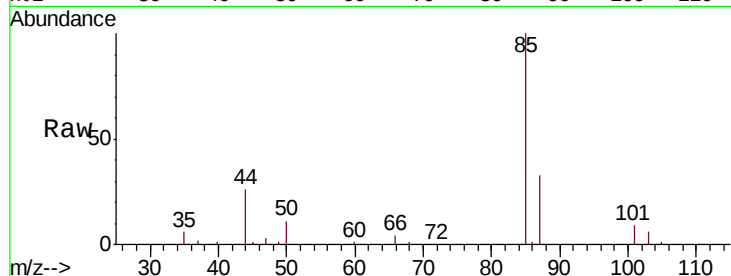
VSTD02572

Tgt Ion: 85 Resp: 32667

Ion Ratio Lower Upper

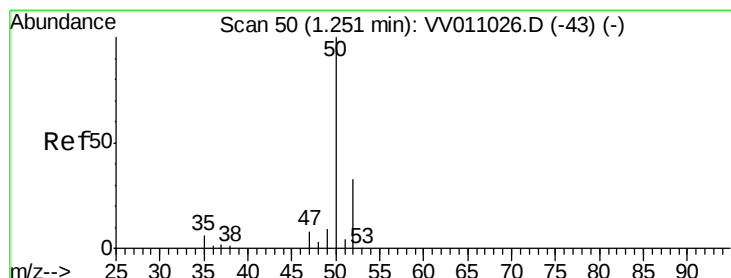
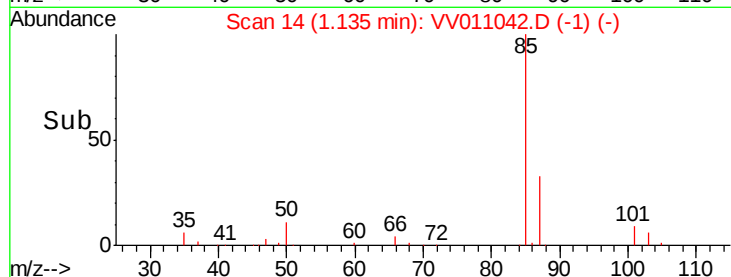
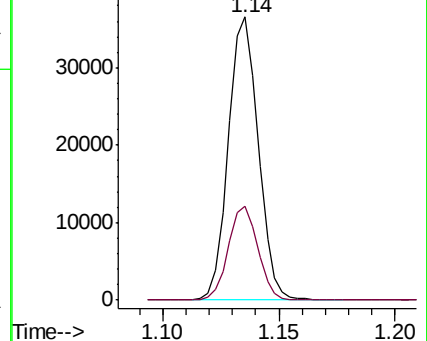
85 100

87 32.4 23.2 43.2



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 21.697 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV011042.D

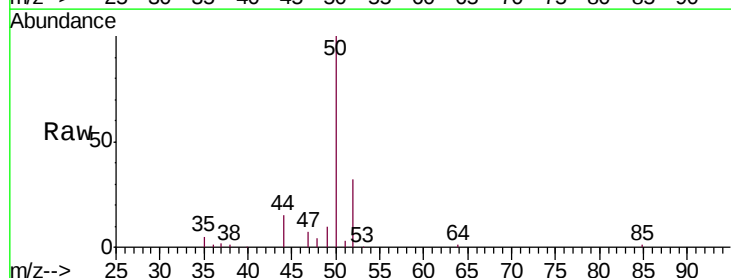
Acq: 23 May 2019 22:41

Tgt Ion: 50 Resp: 32345

Ion Ratio Lower Upper

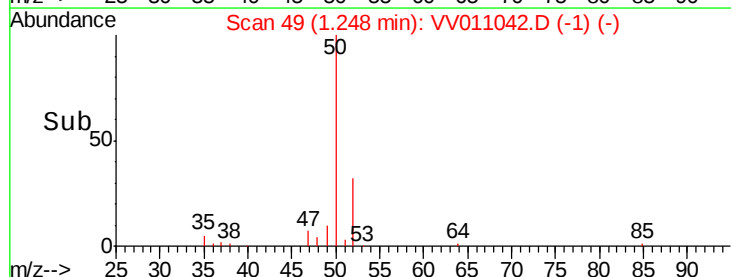
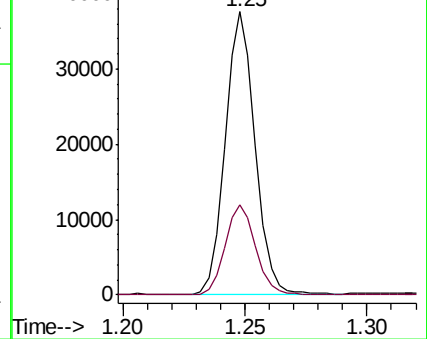
50 100

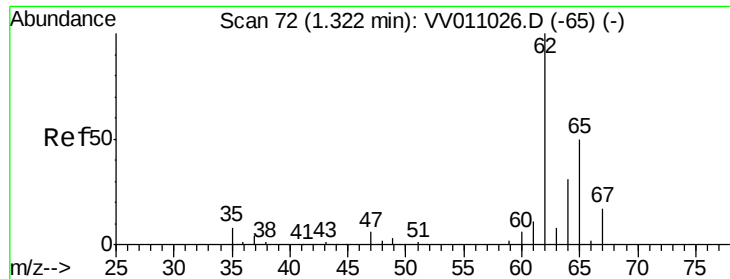
52 31.9 22.7 42.3



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 21.617 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV011042.D

Acq: 23 May 2019 22:41

Instrument :

MSVOA_V

ClientSampleId :

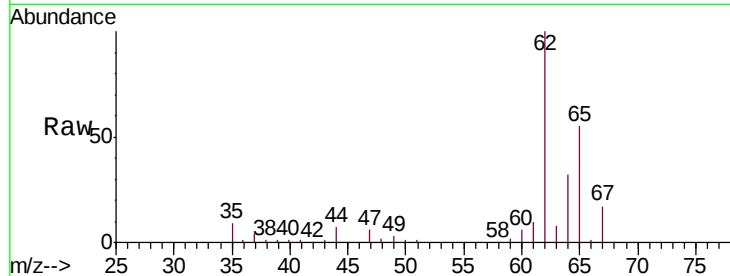
VSTD02572

Tgt Ion: 62 Resp: 32365

Ion Ratio Lower Upper

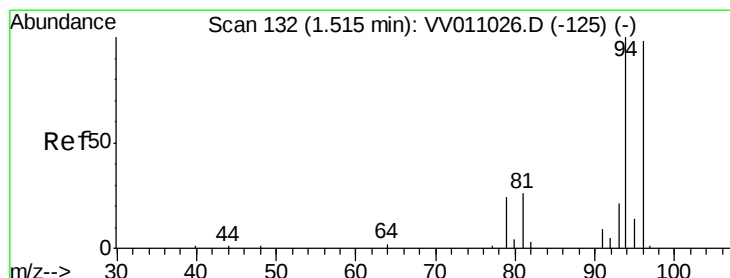
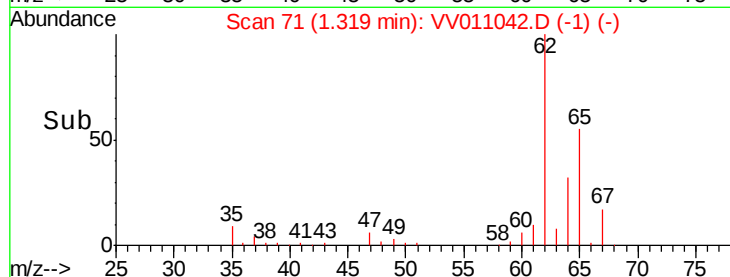
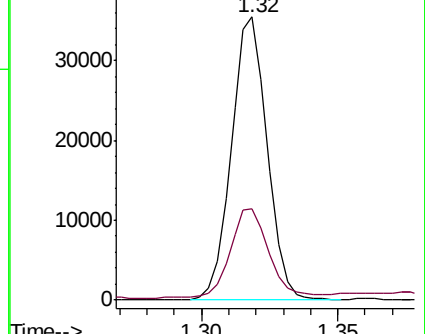
62 100

64 32.4 24.5 45.5



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 18.270 ug/L

RT: 1.51 min Scan# 130

Delta R.T. -0.01 min

Lab File: VV011042.D

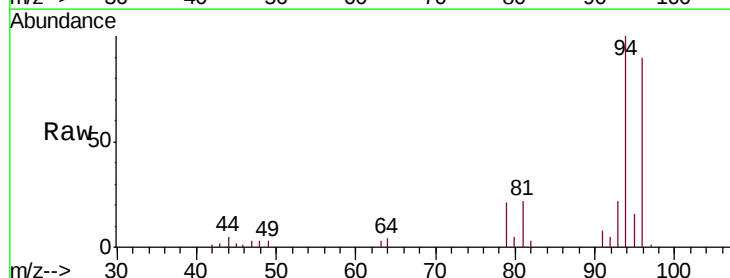
Acq: 23 May 2019 22:41

Tgt Ion: 94 Resp: 9538

Ion Ratio Lower Upper

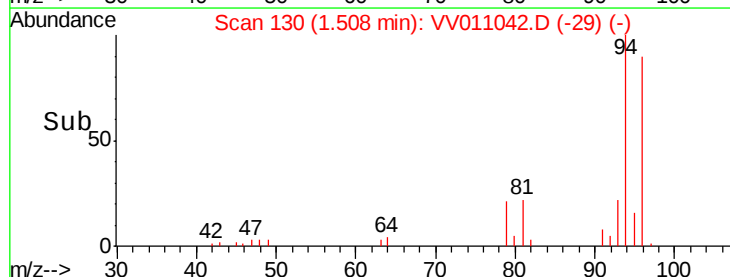
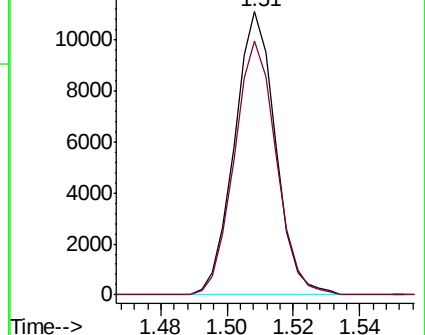
94 100

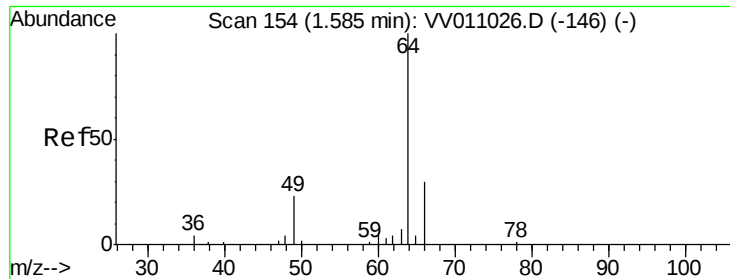
96 91.6 9.3 177.7



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 23.575 ug/L

RT: 1.58 min Scan# 151

Delta R.T. -0.01 min

Lab File: VV011042.D

Acq: 23 May 2019 22:41

Instrument :

MSVOA_V

ClientSampleId :

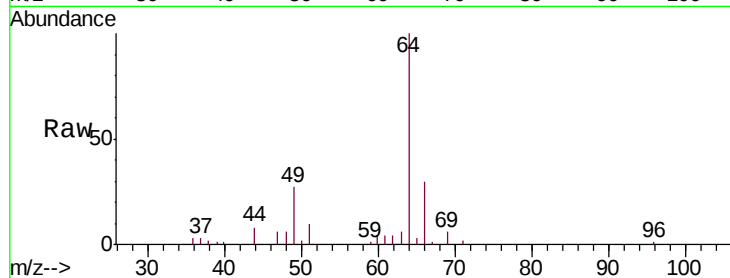
VSTD02572

Tgt Ion: 64 Resp: 17662

Ion Ratio Lower Upper

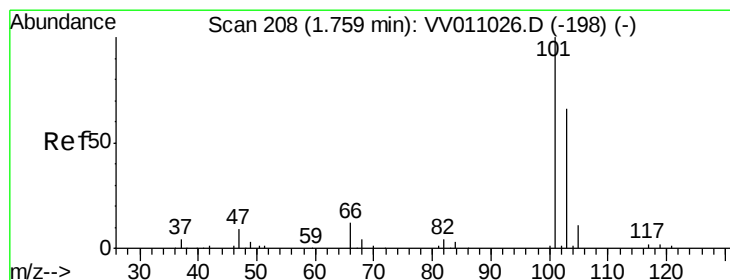
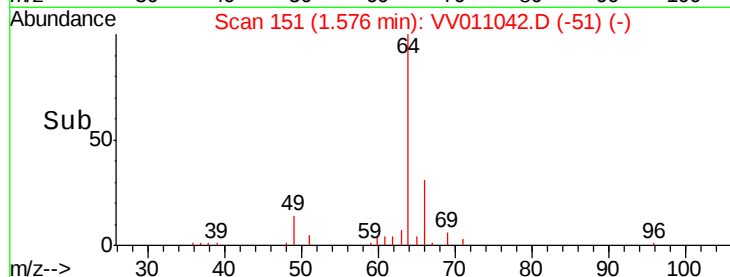
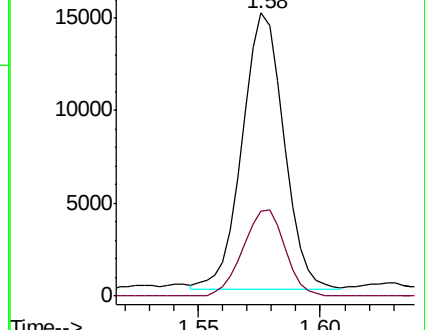
64 100

66 30.1 20.4 37.8



Abundance Ion 64.00 (63.70 to 64.70): VV011026.D (-146) (-)

Ion 66.00 (65.70 to 66.70): VV011026.D (-146) (-)



#9

Trichlorofluoromethane

Concen: 20.472 ug/L

RT: 1.75 min Scan# 206

Delta R.T. -0.01 min

Lab File: VV011042.D

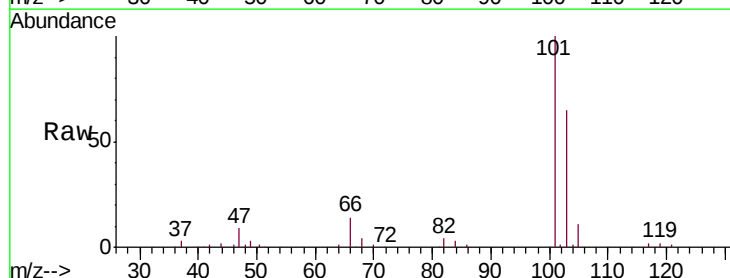
Acq: 23 May 2019 22:41

Tgt Ion: 101 Resp: 48852

Ion Ratio Lower Upper

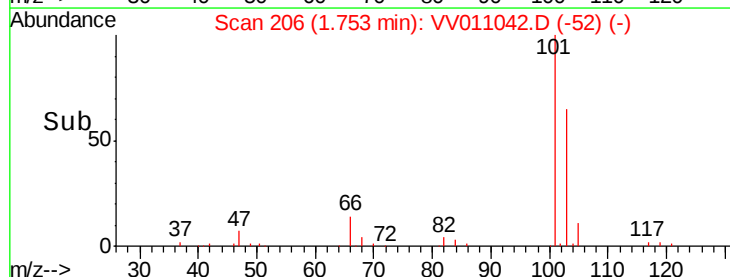
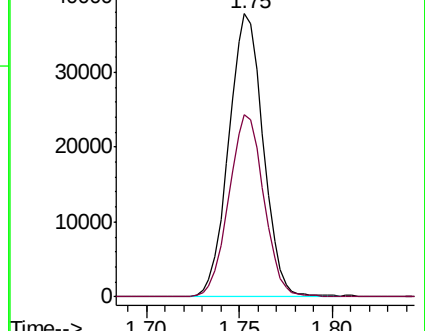
101 100

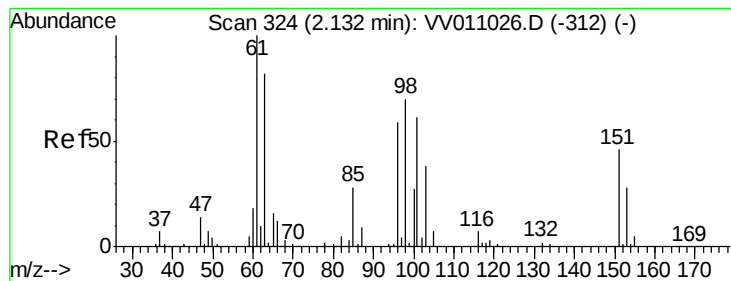
103 65.1 44.7 82.9



Abundance Ion 101.00 (100.70 to 101.70): VV011026.D (-198) (-)

Ion 103.00 (102.70 to 103.70): VV011026.D (-198) (-)





#11

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

Concen: 20.797 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV011042.D

Acq: 23 May 2019 22:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD02572

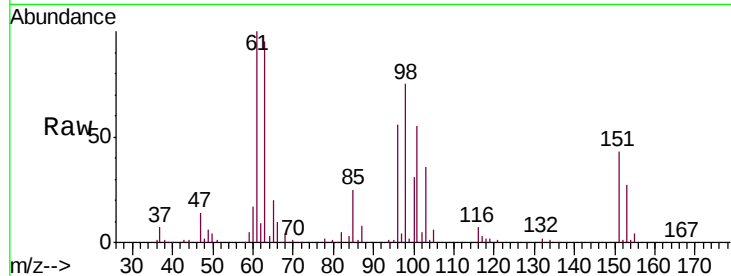
Tgt Ion:101 Resp: 28300

Ion Ratio Lower Upper

101 100

85 44.2 33.9 50.9

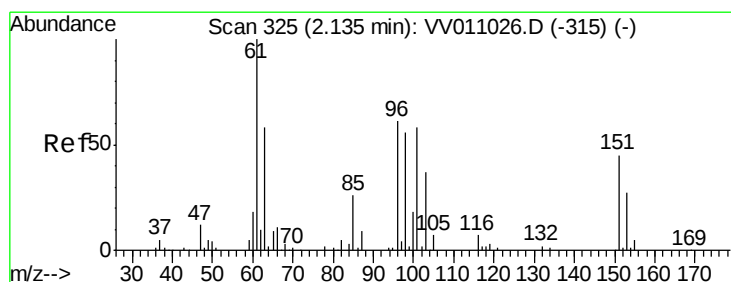
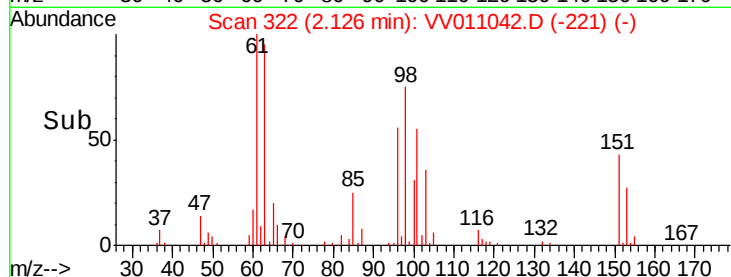
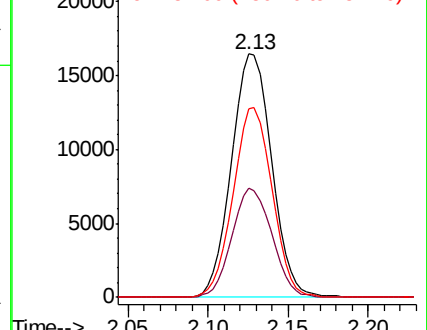
151 75.2 64.7 97.1



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: 21.744 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV011042.D

Acq: 23 May 2019 22:41

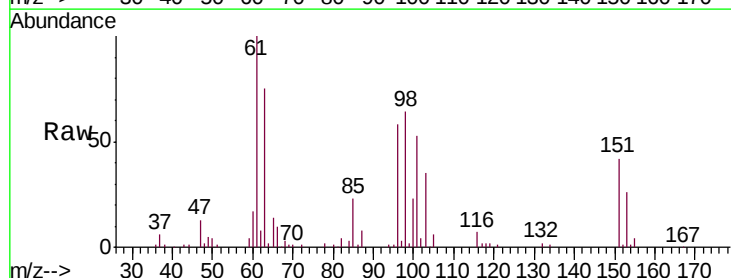
Tgt Ion: 96 Resp: 25579

Ion Ratio Lower Upper

96 100

61 172.5 117.8 218.8

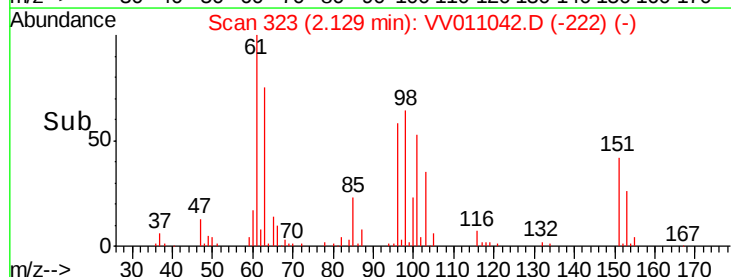
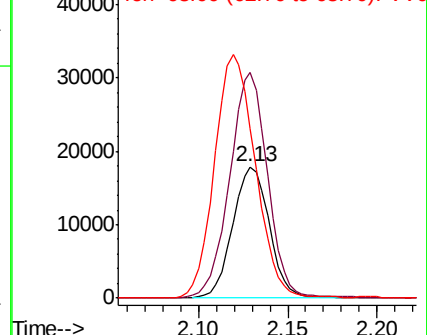
63 129.3 87.1 161.7

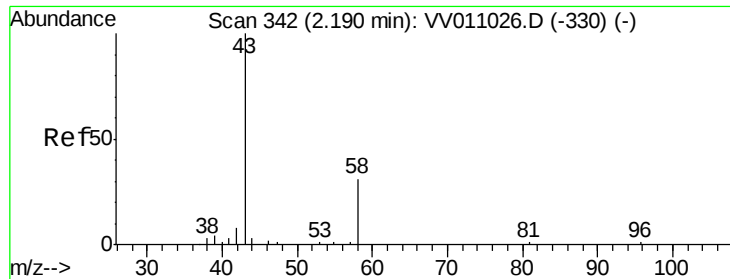


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 46.498 ug/L

RT: 2.19 min Scan# 342

Delta R.T. 0.00 min

Lab File: VV011042.D

Acq: 23 May 2019 22:41

Instrument :

MSVOA_V

ClientSampleId :

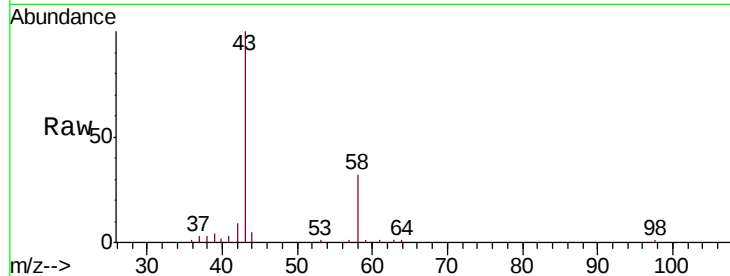
VSTD02572

Tgt Ion: 43 Resp: 19663

Ion Ratio Lower Upper

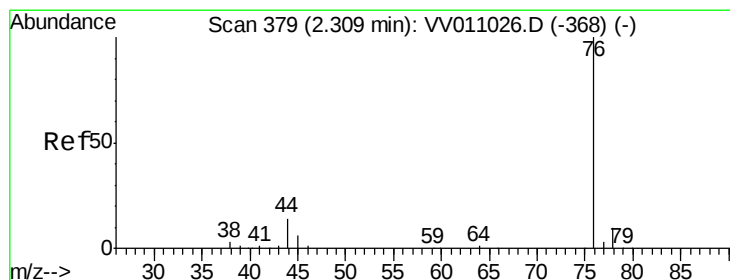
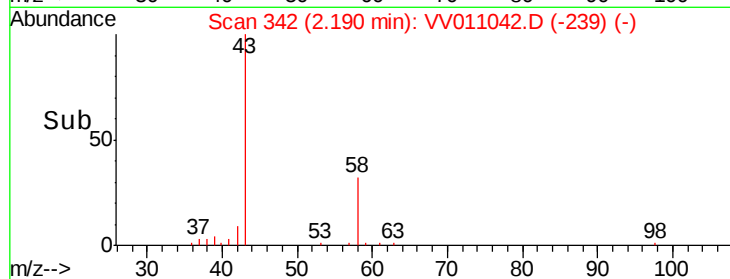
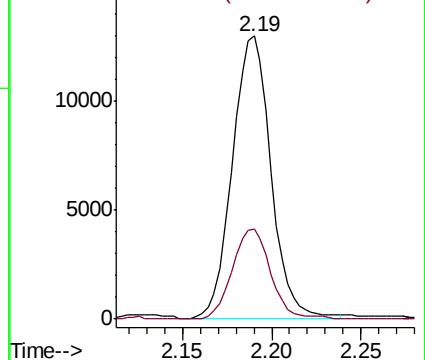
43 100

58 31.1 0.0 60.8



Abundance Ion 43.00 (42.70 to 43.70): VV011026.D (-330) (-)

Ion 58.00 (57.70 to 58.70): VV011026.D (-330) (-)



#14

Carbon disulfide

Concen: 20.392 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VV011042.D

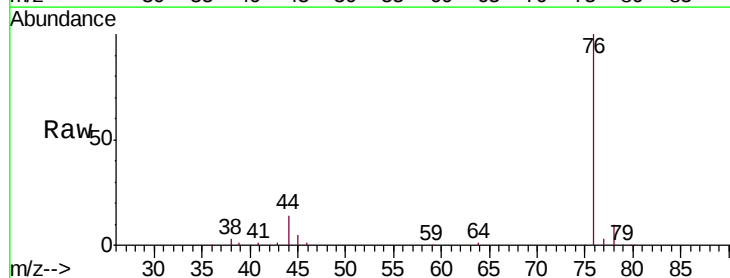
Acq: 23 May 2019 22:41

Tgt Ion: 76 Resp: 67176

Ion Ratio Lower Upper

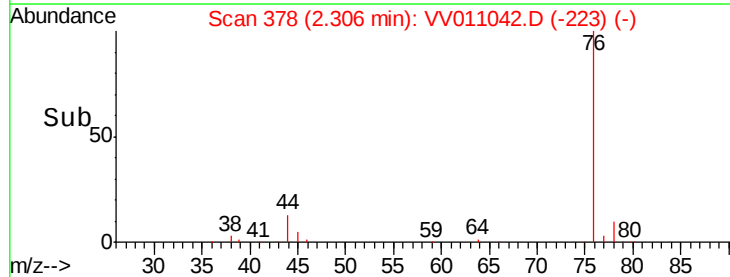
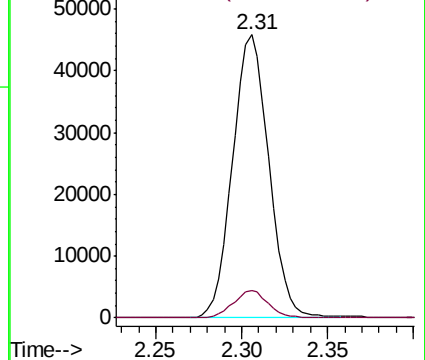
76 100

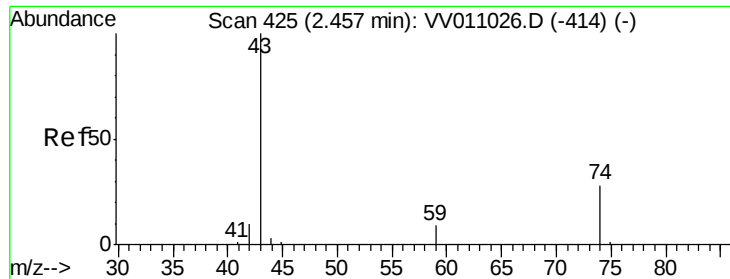
78 9.9 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VV011026.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV011026.D (-368) (-)

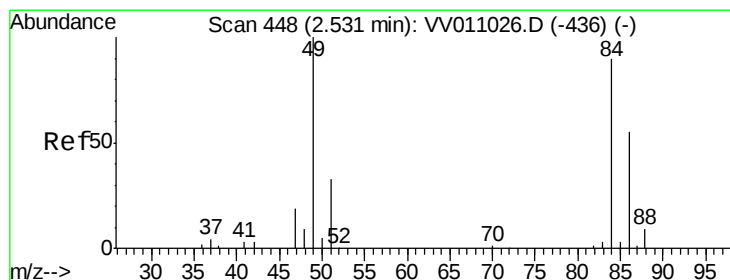
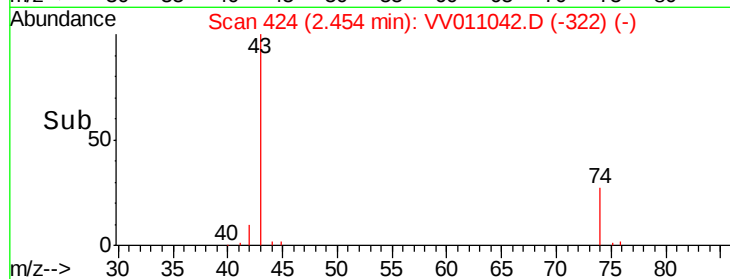
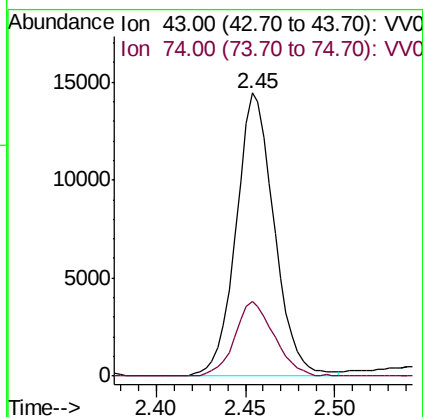
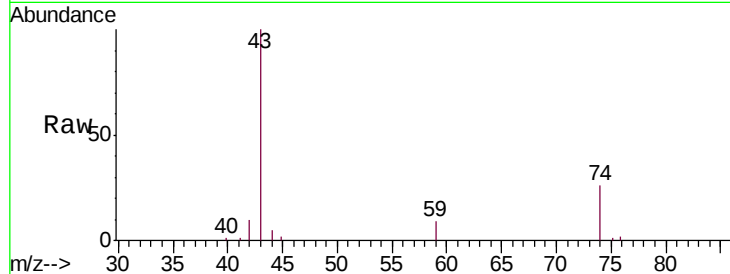




#15
Methyl Acetate
Concen: 26.427 ug/L
RT: 2.45 min Scan# 424
Delta R.T. -0.00 min
Lab File: VV011042.D
Acq: 23 May 2019 22:41

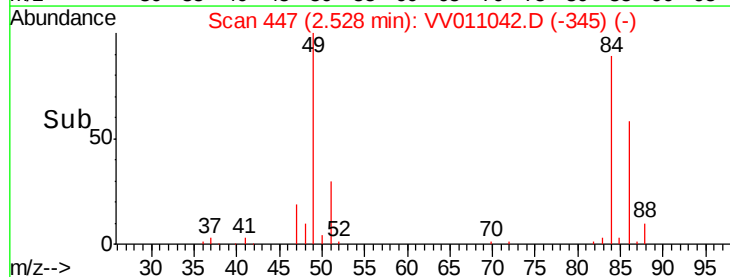
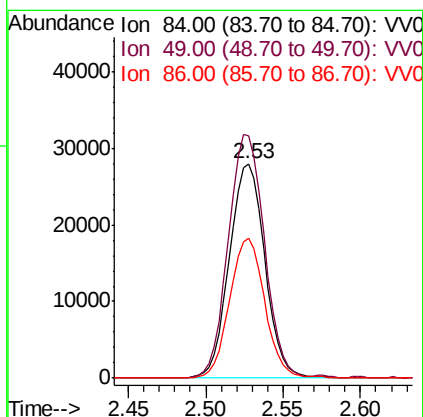
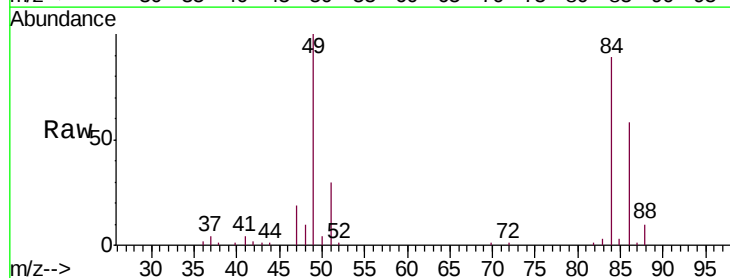
Instrument :
MSVOA_V
ClientSampleId :
VSTD02572

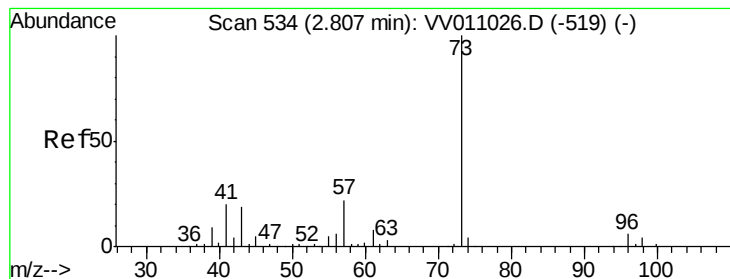
Tgt Ion: 43 Resp: 21472
Ion Ratio Lower Upper
43 100
74 27.1 21.1 31.7



#16
Methylene chloride
Concen: 23.368 ug/L
RT: 2.53 min Scan# 447
Delta R.T. -0.00 min
Lab File: VV011042.D
Acq: 23 May 2019 22:41

Tgt Ion: 84 Resp: 44706
Ion Ratio Lower Upper
84 100
49 112.8 77.4 143.8
86 65.0 44.0 81.6





#17

Methyl tert-butyl Ether

Concen: 25.524 ug/L

RT: 2.80 min Scan# 533

Delta R.T. -0.00 min

Lab File: VV011042.D

Acq: 23 May 2019 22:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD02572

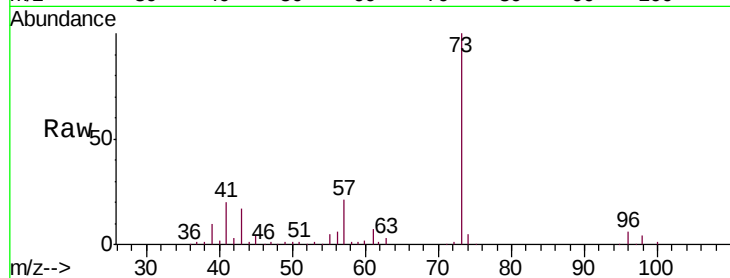
Tgt Ion: 73 Resp: 106240

Ion Ratio Lower Upper

73 100

43 17.3 14.5 21.7

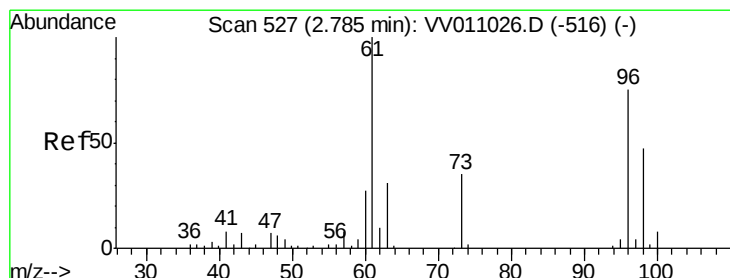
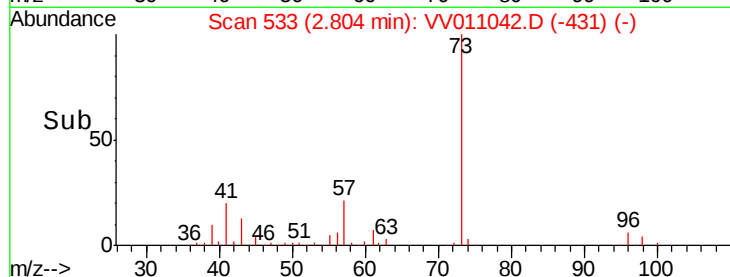
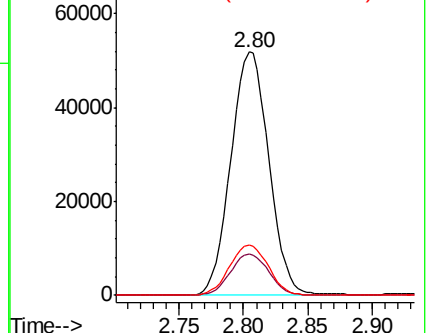
57 21.0 17.3 25.9



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: 22.845 ug/L

RT: 2.78 min Scan# 526

Delta R.T. -0.00 min

Lab File: VV011042.D

Acq: 23 May 2019 22:41

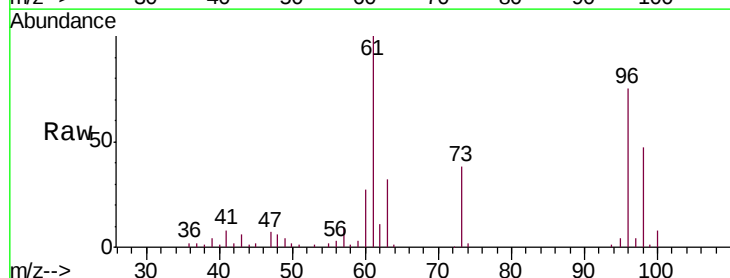
Tgt Ion: 96 Resp: 37074

Ion Ratio Lower Upper

96 100

61 133.9 89.7 166.5

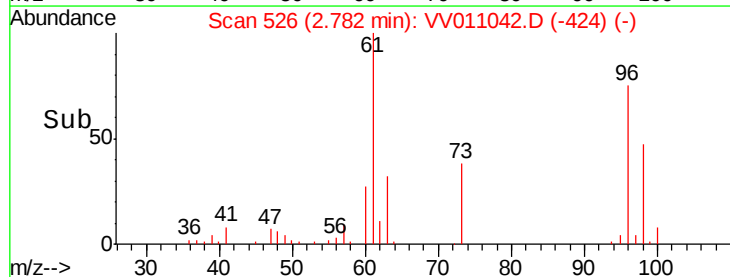
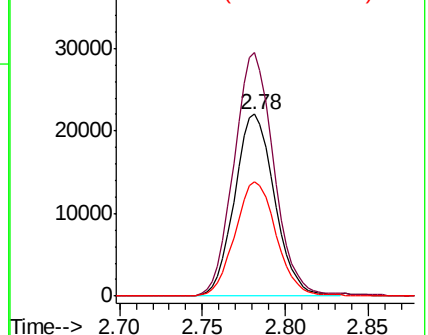
98 62.9 44.5 82.7

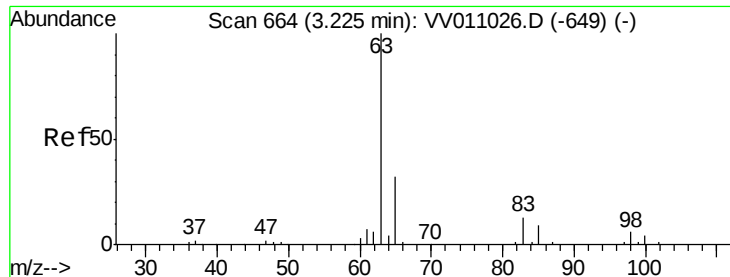


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#19

1,1-Dichloroethane

Concen: 24.695 ug/L

RT: 3.22 min Scan# 663

Delta R.T. -0.00 min

Lab File: VV011042.D

Acq: 23 May 2019 22:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD02572

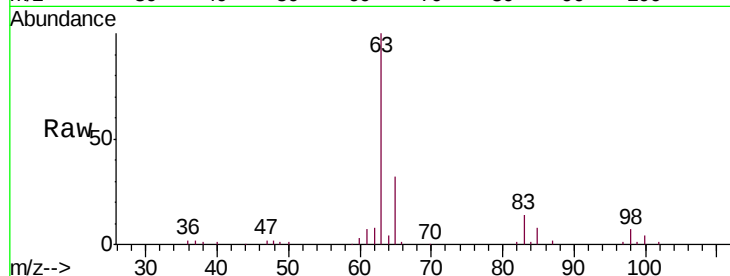
Tgt Ion: 63 Resp: 72971

Ion Ratio Lower Upper

63 100

65 31.5 21.1 39.3

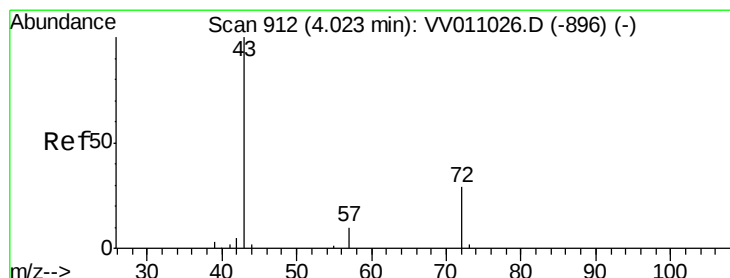
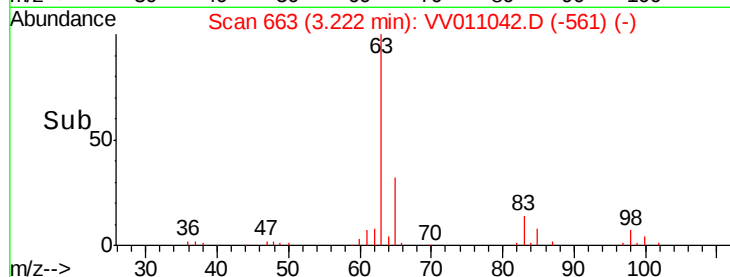
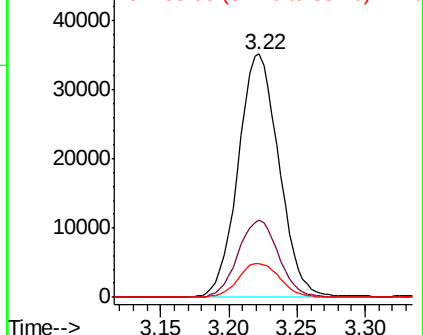
83 13.7 9.1 16.9



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#21

2-Butanone

Concen: 49.335 ug/L

RT: 4.02 min Scan# 911

Delta R.T. -0.00 min

Lab File: VV011042.D

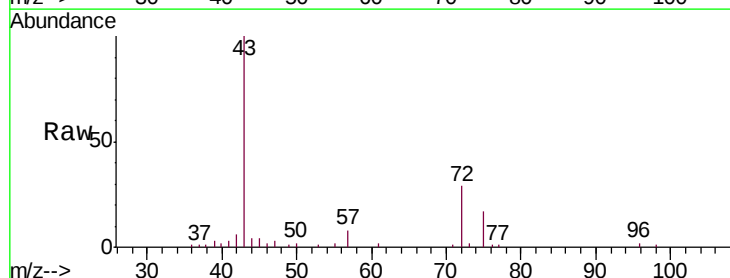
Acq: 23 May 2019 22:41

Tgt Ion: 43 Resp: 28550

Ion Ratio Lower Upper

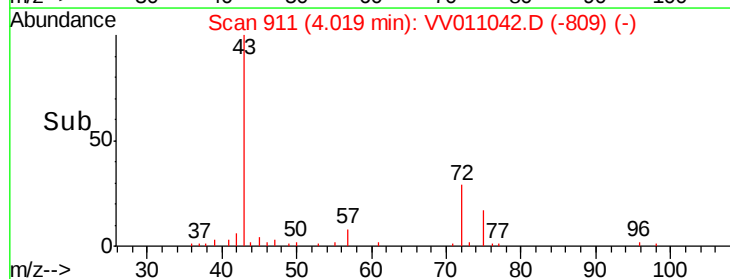
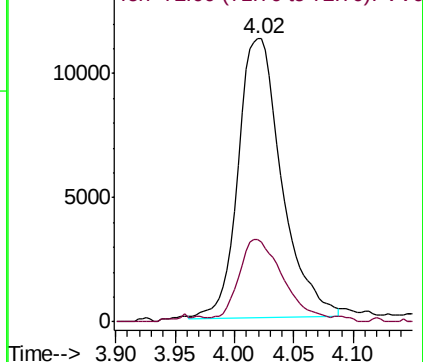
43 100

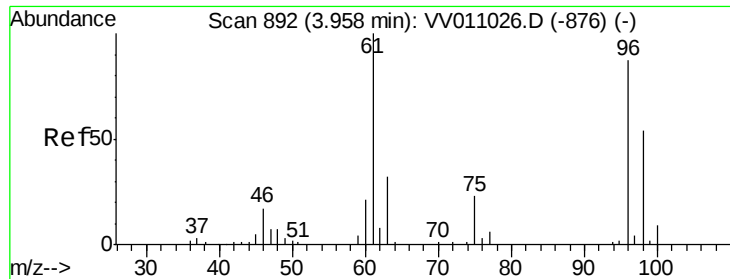
72 30.6 13.1 39.3



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 72.00 (71.70 to 72.70): VV0



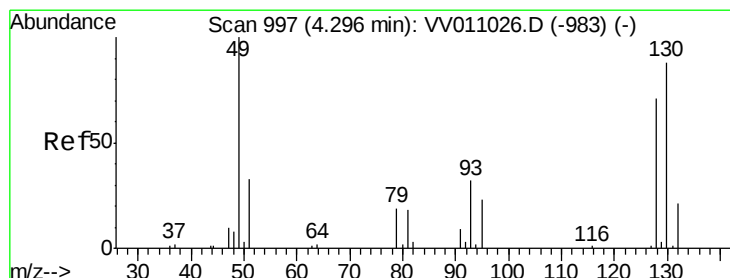
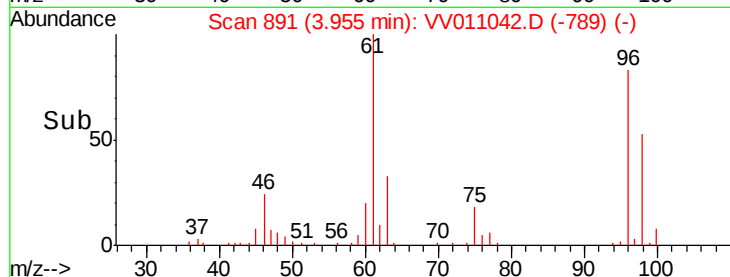
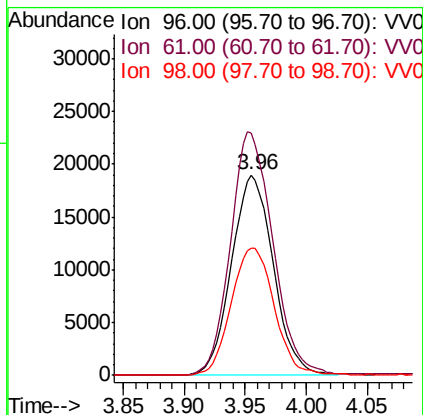
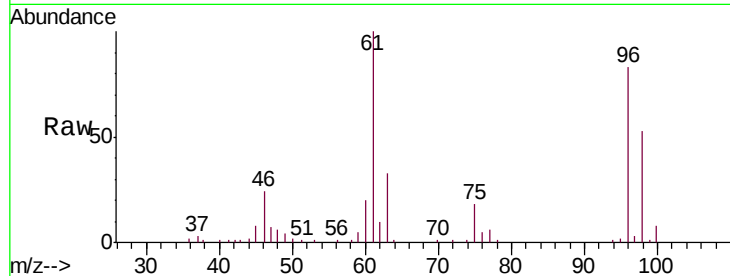


#22

cis-1,2-Dichloroethene
 Concen: 24.961 ug/L
 RT: 3.96 min Scan# 891
 Delta R.T. -0.00 min
 Lab File: VV011042.D
 Acq: 23 May 2019 22:41

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02572

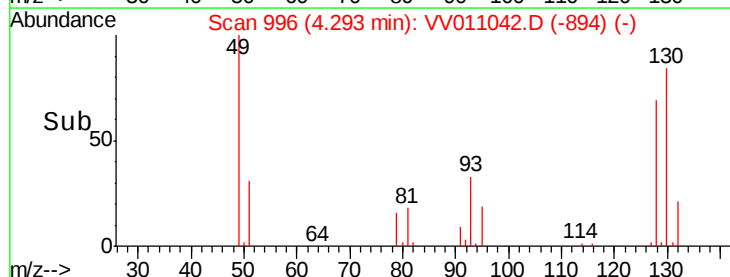
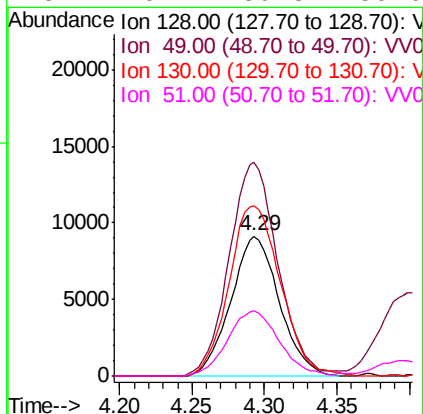
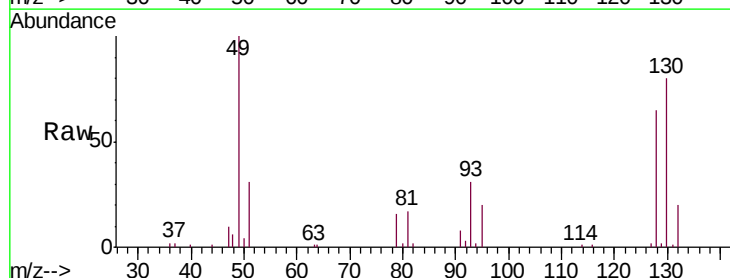
Tgt Ion: 96 Resp: 45101
 Ion Ratio Lower Upper
 96 100
 61 121.0 85.4 158.6
 98 63.8 45.1 83.7

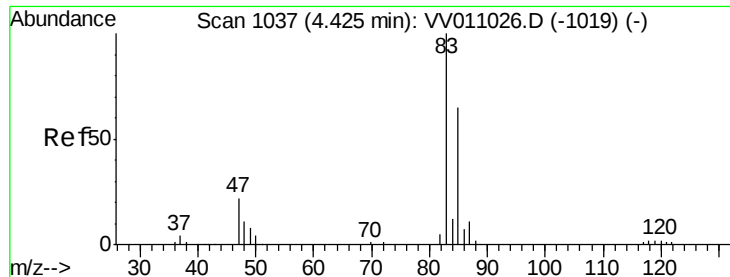


#23

Bromochloromethane
 Concen: 24.813 ug/L
 RT: 4.29 min Scan# 996
 Delta R.T. -0.00 min
 Lab File: VV011042.D
 Acq: 23 May 2019 22:41

Tgt Ion: 128 Resp: 21247
 Ion Ratio Lower Upper
 128 100
 49 152.7 111.6 207.4
 130 122.0 95.5 177.3
 51 46.7 39.8 59.6

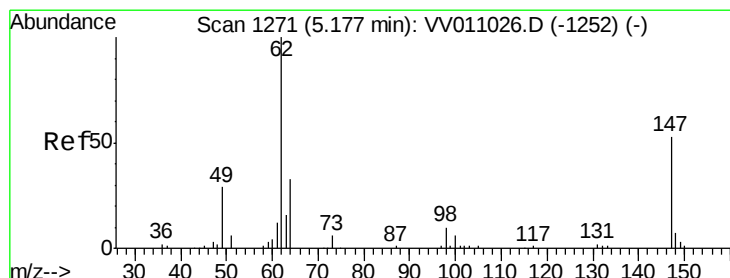
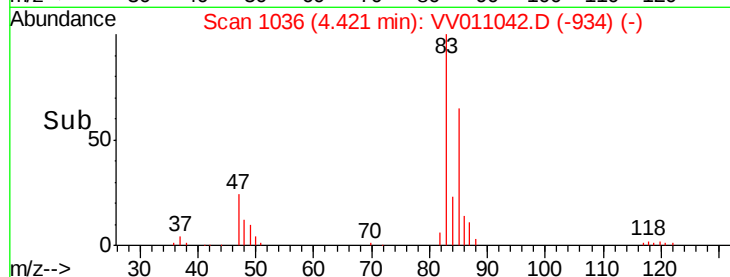
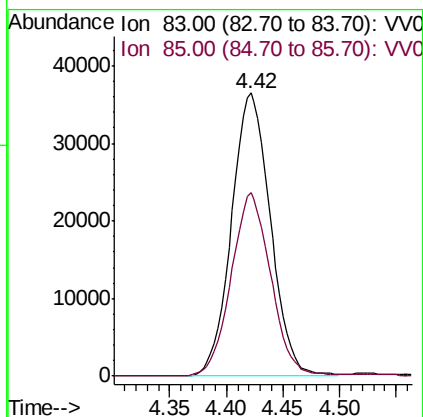
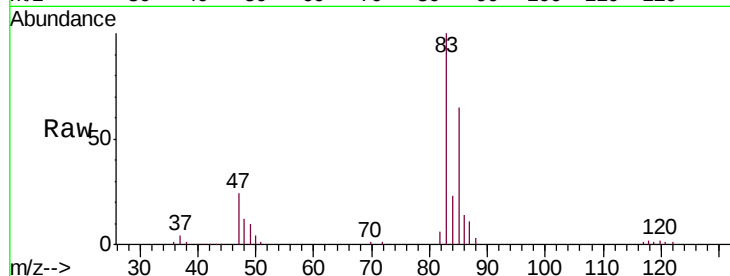




#25
Chloroform
Concen: 26.168 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV011042.D
Acq: 23 May 2019 22:41

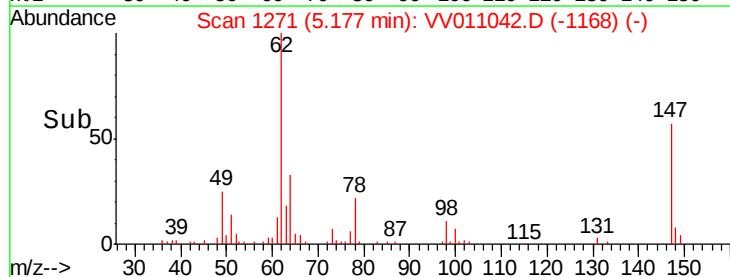
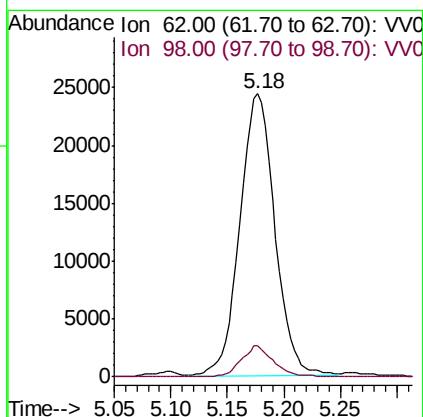
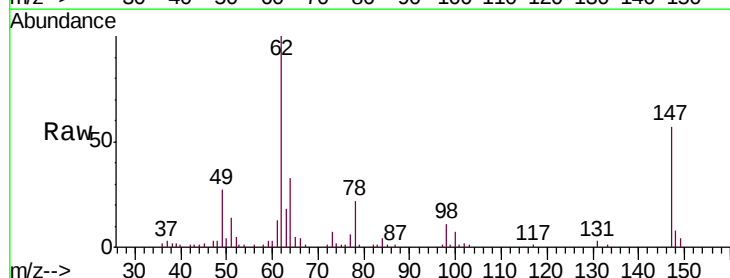
Instrument :
MSVOA_V
ClientSampleId :
VSTD02572

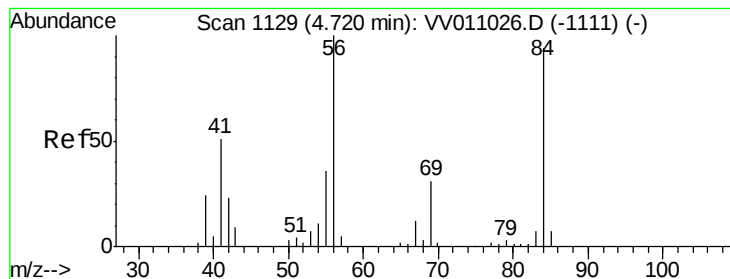
Tgt Ion: 83 Resp: 87495
Ion Ratio Lower Upper
83 100
85 65.8 45.6 84.8



#27
1,2-Dichloroethane
Concen: 25.698 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV011042.D
Acq: 23 May 2019 22:41

Tgt Ion: 62 Resp: 52820
Ion Ratio Lower Upper
62 100
98 11.2 8.6 13.0





#30

Cyclohexane

Concen: 20.271 ug/L

RT: 4.72 min Scan# 1128

Delta R.T. -0.00 min

Lab File: VV011042.D

Acq: 23 May 2019 22:41

Instrument :

MSVOA_V

ClientSampled :

VSTD02572

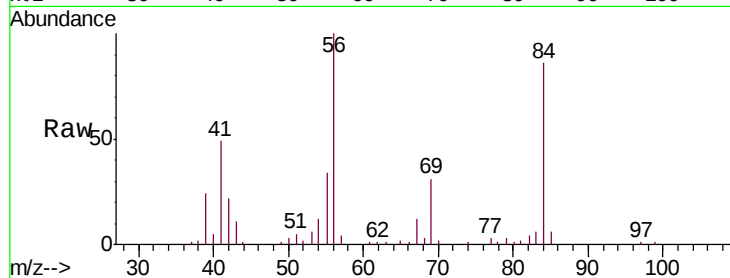
Tgt Ion: 56 Resp: 49697

Ion Ratio Lower Upper

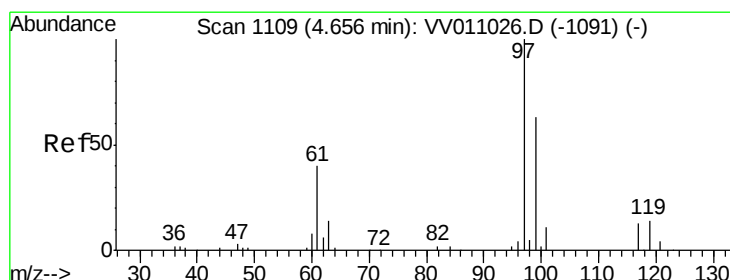
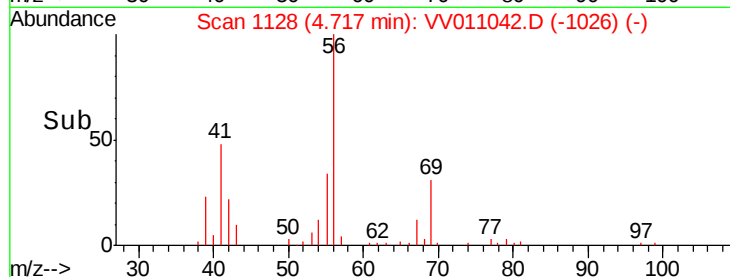
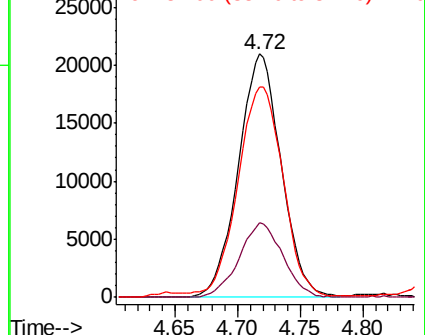
56 100

69 31.1 25.1 37.7

84 90.5 72.4 108.6



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



#31

1,1,1-Trichloroethane

Concen: 21.996 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VV011042.D

Acq: 23 May 2019 22:41

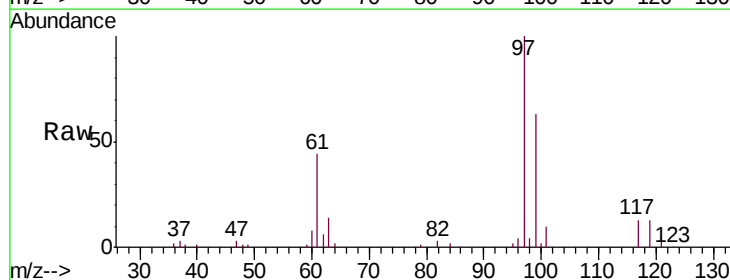
Tgt Ion: 97 Resp: 58378

Ion Ratio Lower Upper

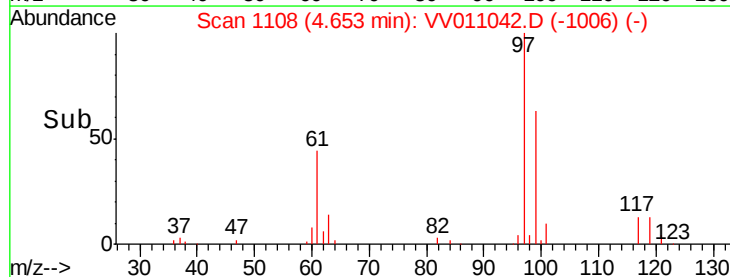
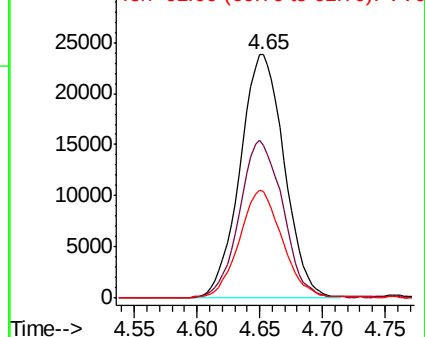
97 100

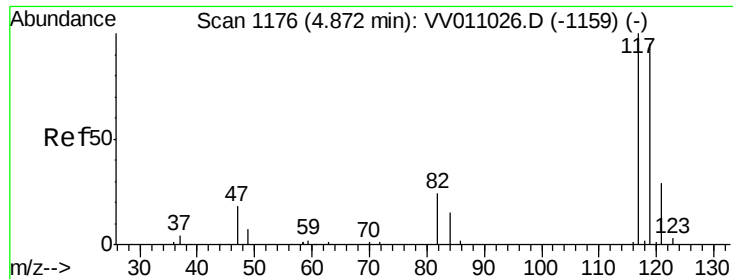
99 63.4 51.0 76.4

61 41.7 33.9 50.9



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: 20.729 ug/L

RT: 4.87 min Scan# 1175

Delta R.T. -0.00 min

Lab File: VV011042.D

Acq: 23 May 2019 22:41

Instrument :

MSVOA_V

ClientSampleId :

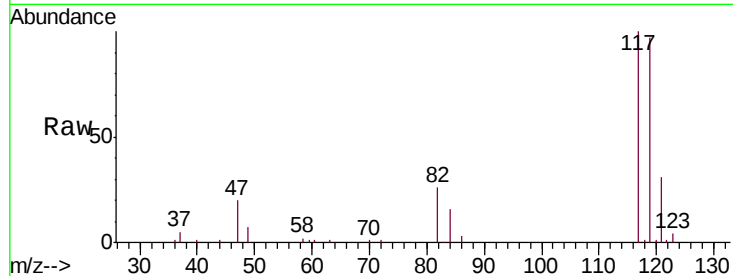
VSTD02572

Tgt Ion:117 Resp: 50171

Ion Ratio Lower Upper

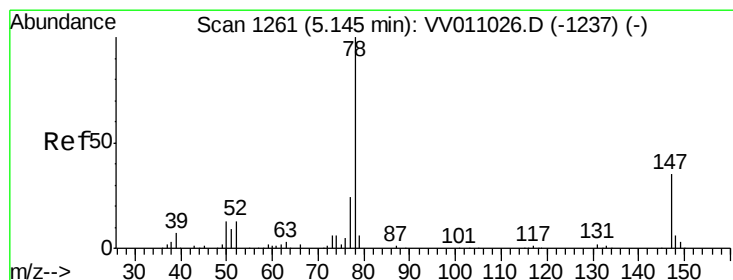
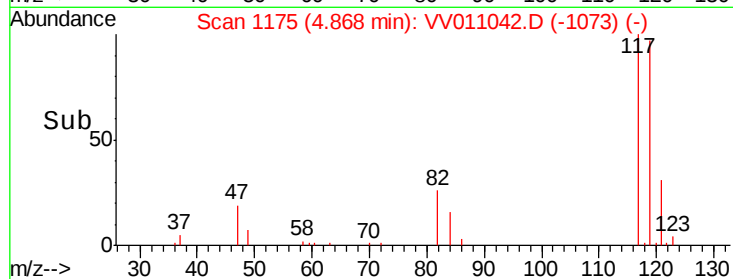
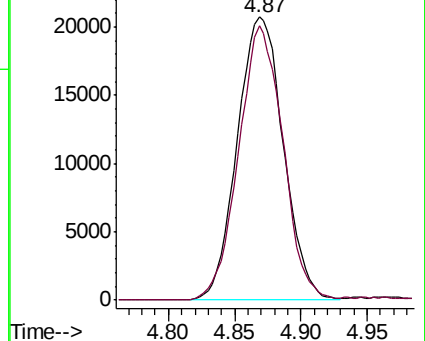
117 100

119 93.1 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 24.374 ug/L

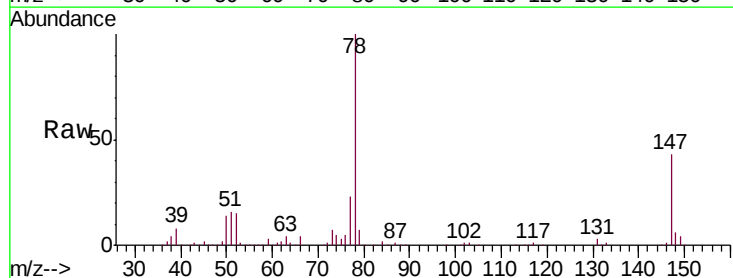
RT: 5.14 min Scan# 1260

Delta R.T. -0.00 min

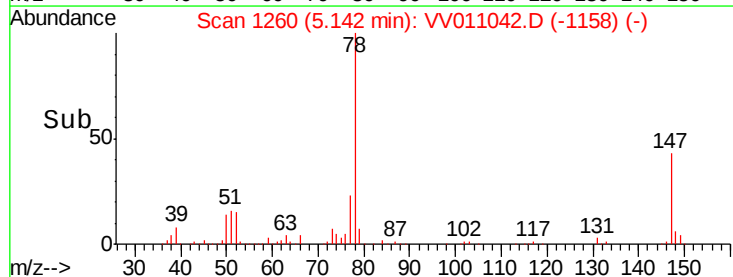
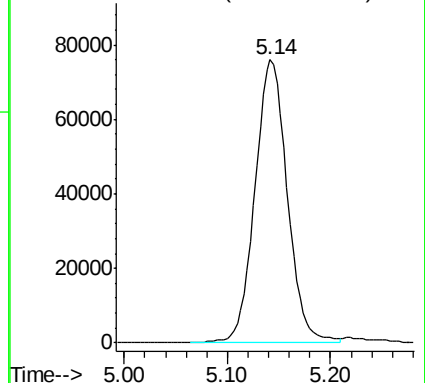
Lab File: VV011042.D

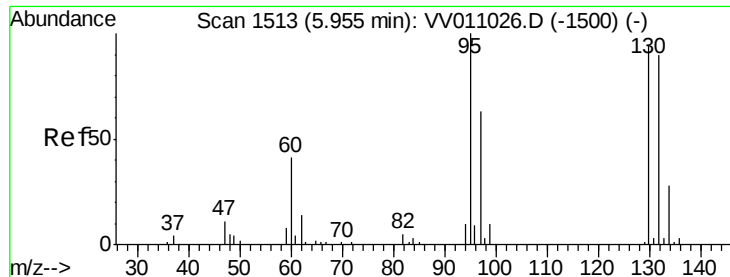
Acq: 23 May 2019 22:41

Tgt Ion: 78 Resp: 165778



Abundance Ion 78.00 (77.70 to 78.70): VV0

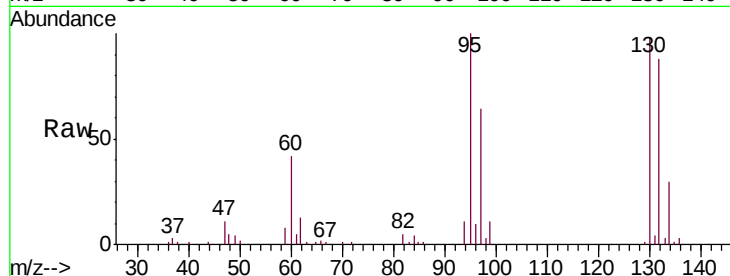




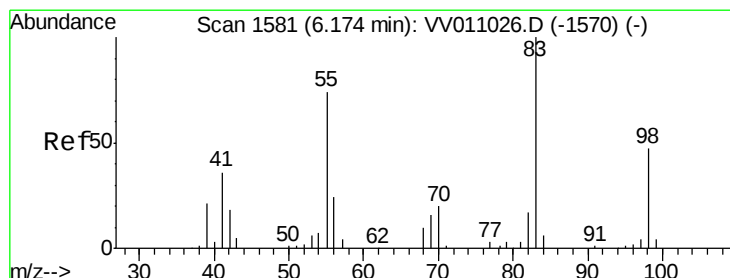
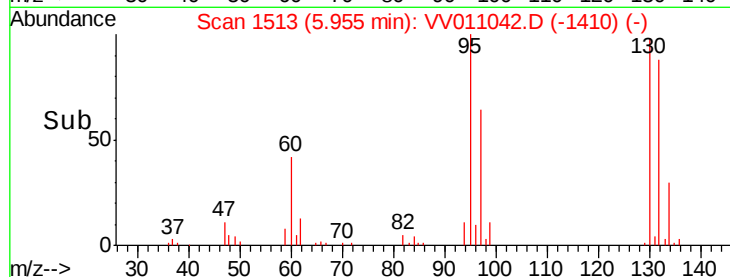
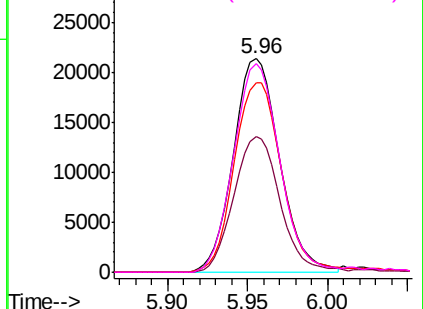
#35
 Trichloroethene
 Concen: 22.513 ug/L
 RT: 5.96 min Scan# 1513
 Delta R.T. 0.00 min
 Lab File: VV011042.D
 Acq: 23 May 2019 22:41

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02572

Tgt Ion: 95 Resp: 42307
 Ion Ratio Lower Upper
 95 100
 97 63.1 43.4 80.6
 132 91.0 68.8 127.8
 130 97.2 69.9 129.9

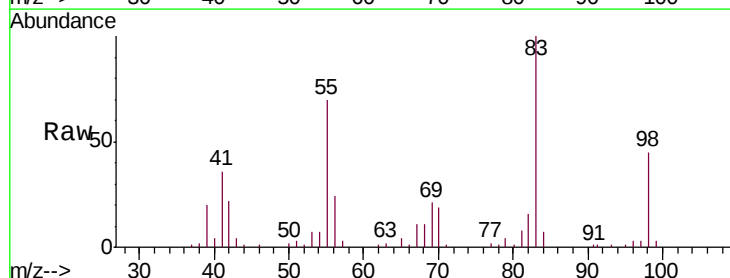


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

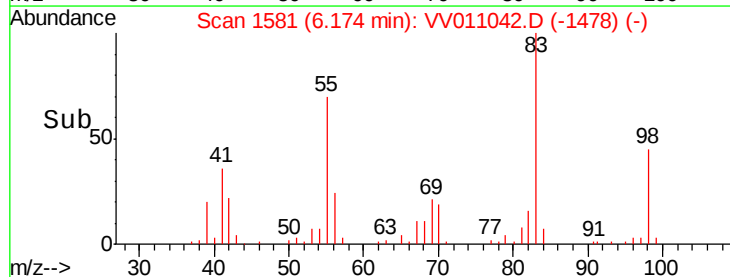
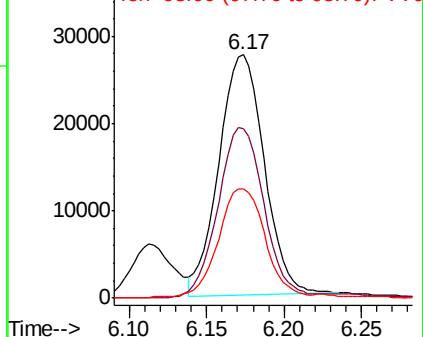


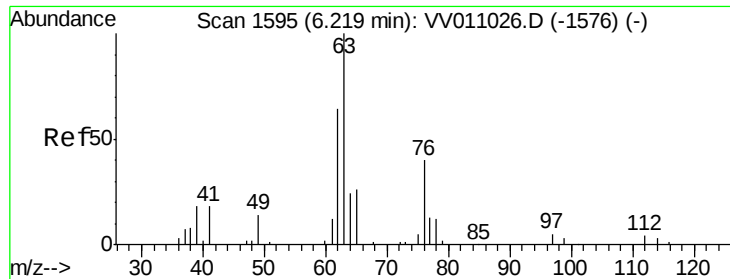
#36
 Methylcyclohexane
 Concen: 20.256 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: VV011042.D
 Acq: 23 May 2019 22:41

Tgt Ion: 83 Resp: 56274
 Ion Ratio Lower Upper
 83 100
 55 71.8 57.0 85.4
 98 46.2 36.2 54.4



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

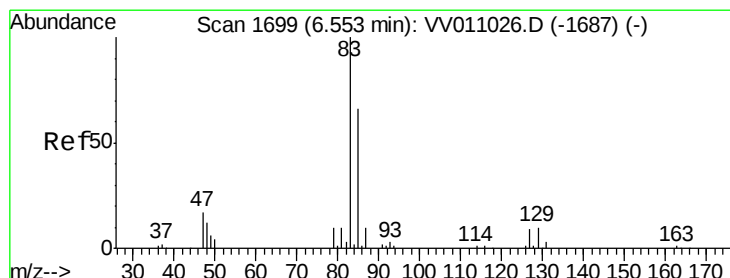
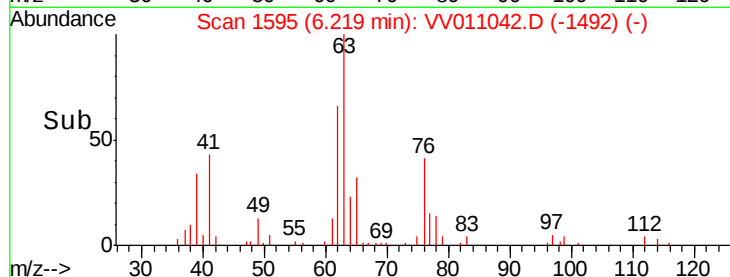
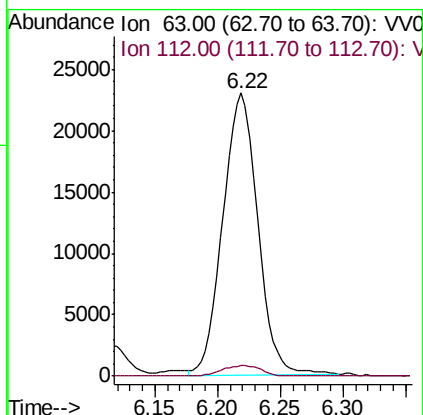
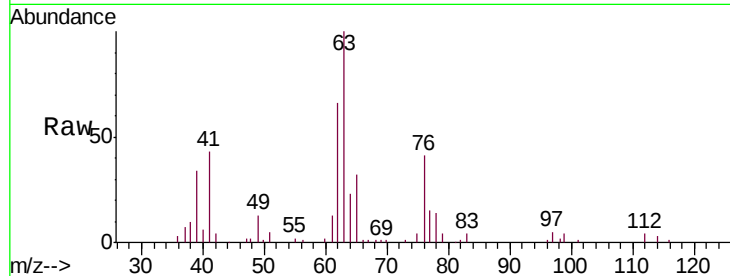




#40
 1,2-Dichloropropane
 Concen: 24.739 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV011042.D
 Acq: 23 May 2019 22:41

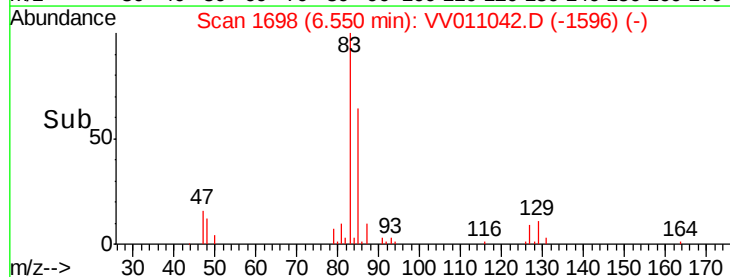
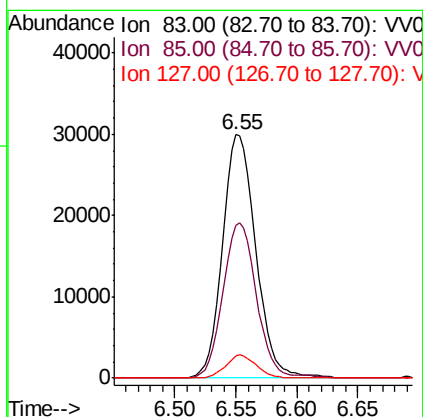
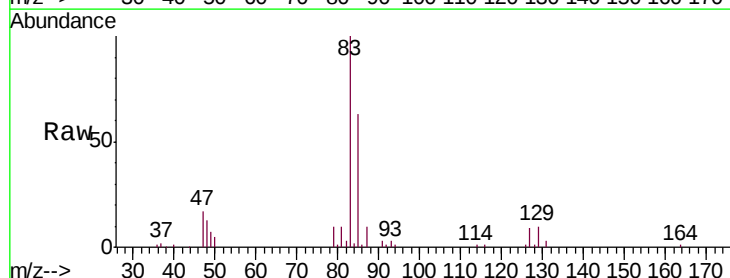
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02572

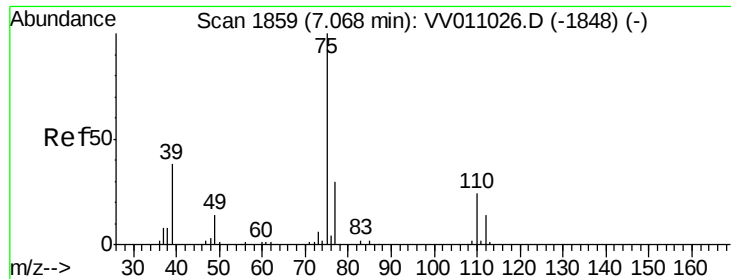
Tgt Ion: 63 Resp: 44220
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.6 5.4



#41
 Bromodichloromethane
 Concen: 23.989 ug/L
 RT: 6.55 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VV011042.D
 Acq: 23 May 2019 22:41

Tgt Ion: 83 Resp: 57313
 Ion Ratio Lower Upper
 83 100
 85 62.7 46.7 86.7
 127 9.0 7.1 10.7



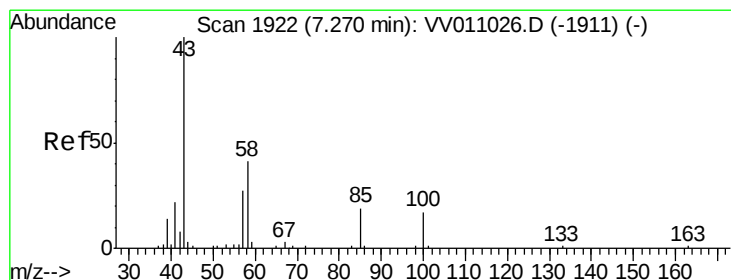
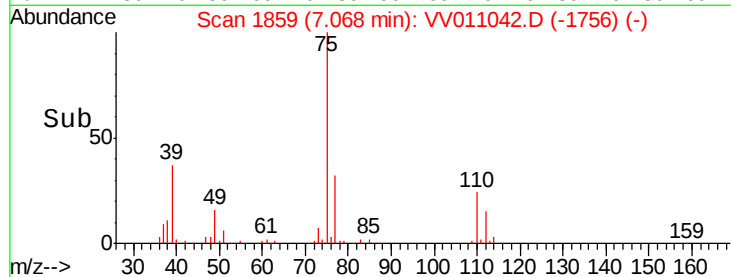
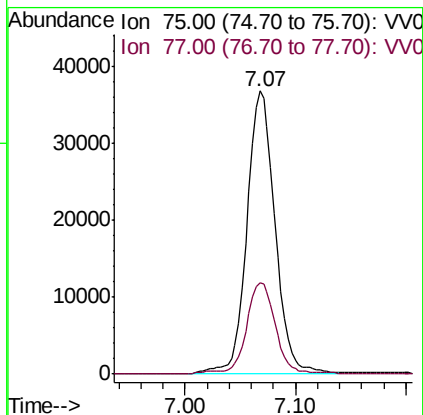
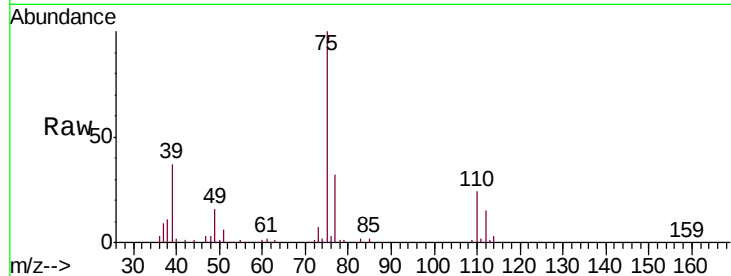


#42

cis-1,3-Dichloropropene
 Concen: 24.546 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV011042.D
 Acq: 23 May 2019 22:41

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02572

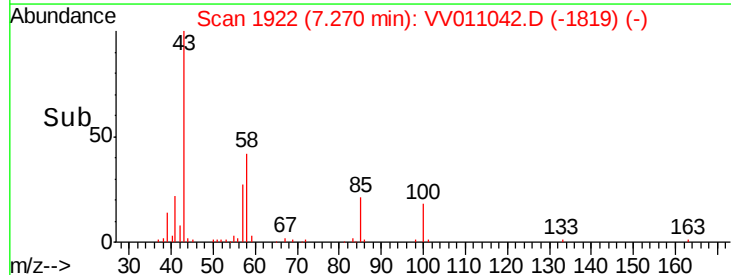
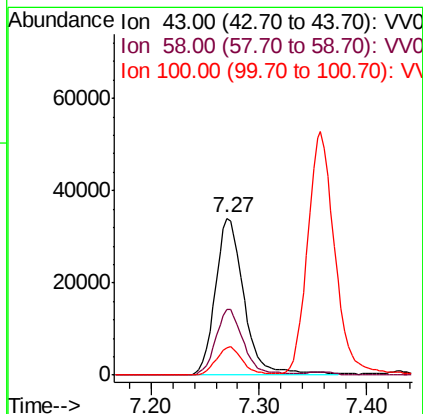
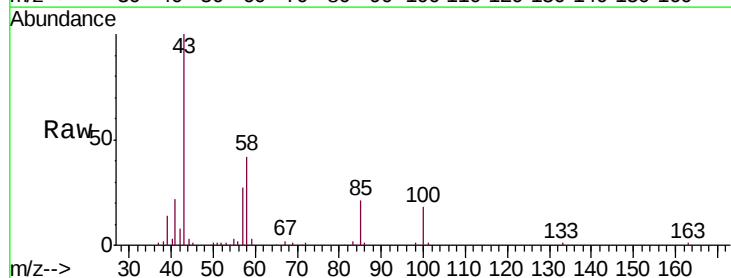
Tgt Ion: 75 Resp: 65307
 Ion Ratio Lower Upper
 75 100
 77 32.4 22.9 42.5

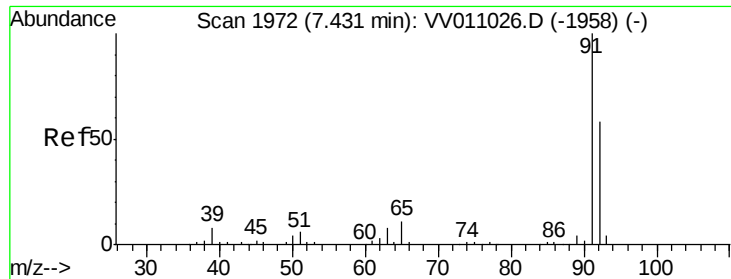


#43

4-Methyl-2-pentanone
 Concen: 49.293 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV011042.D
 Acq: 23 May 2019 22:41

Tgt Ion: 43 Resp: 63160
 Ion Ratio Lower Upper
 43 100
 58 40.3 33.1 49.7
 100 16.8 13.1 19.7





#44

Toluene

Concen: 24.304 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV011042.D

Acq: 23 May 2019 22:41

Instrument :

MSVOA_V

ClientSampleId :

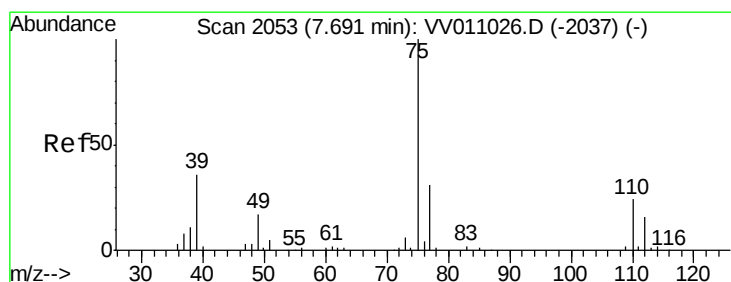
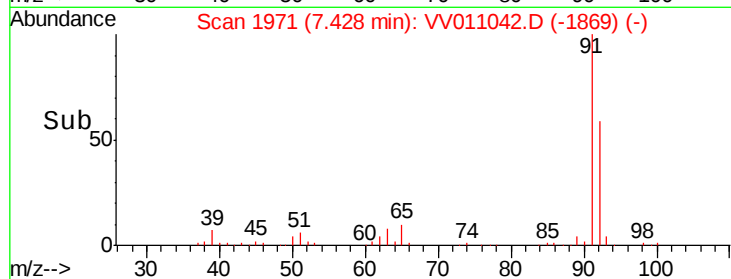
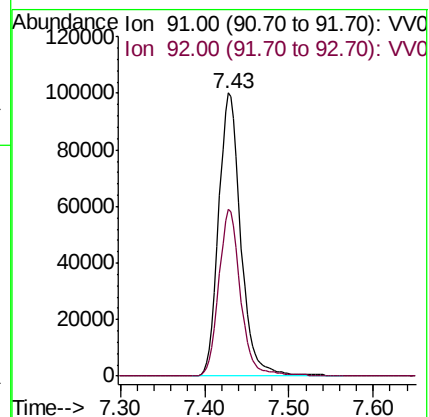
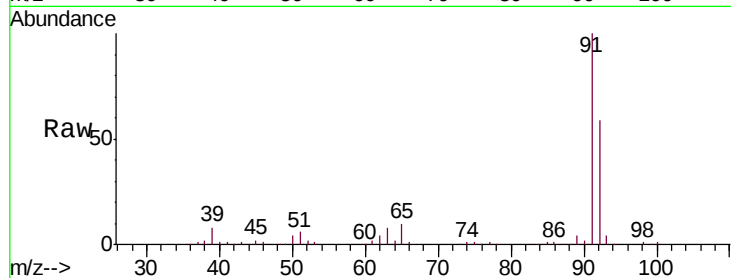
VSTD02572

Tgt Ion: 91 Resp: 183443

Ion Ratio Lower Upper

91 100

92 58.8 40.0 74.4



#45

trans-1,3-Dichloropropene

Concen: 24.058 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV011042.D

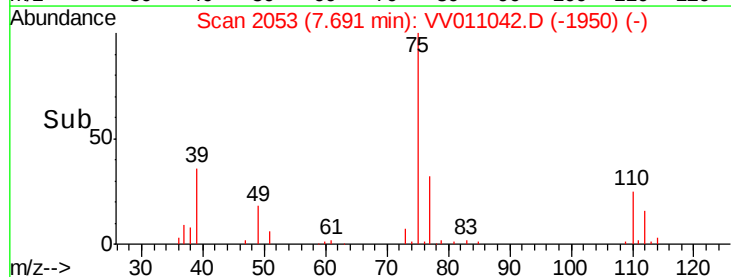
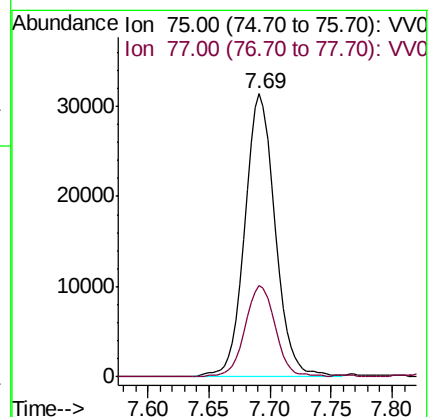
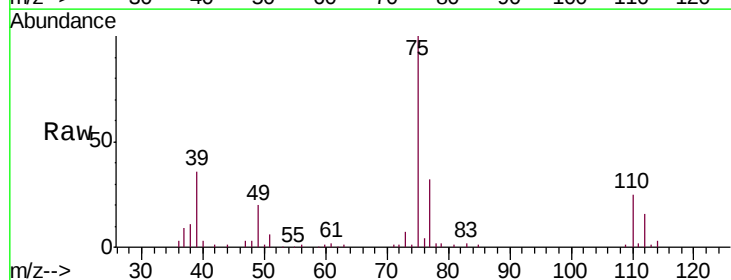
Acq: 23 May 2019 22:41

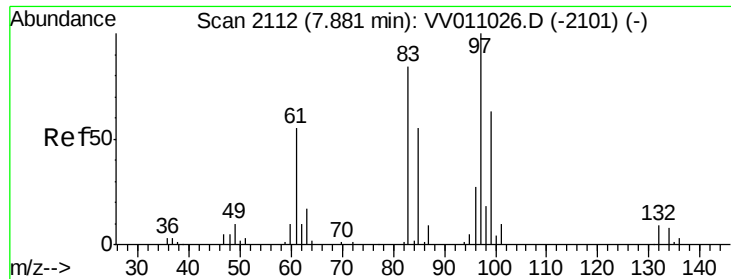
Tgt Ion: 75 Resp: 53918

Ion Ratio Lower Upper

75 100

77 32.1 22.0 41.0

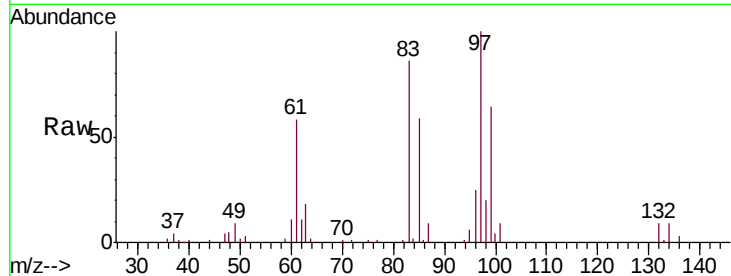




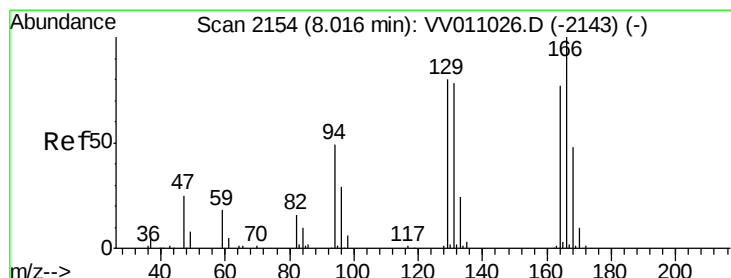
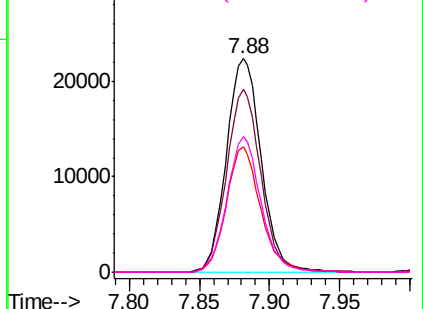
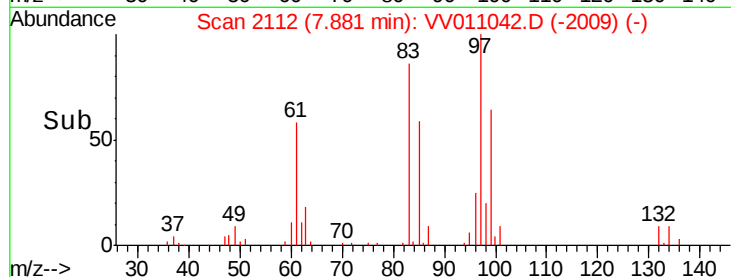
#46
 1,1,2-Trichloroethane
 Concen: 25.389 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV011042.D
 Acq: 23 May 2019 22:41

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02572

Tgt Ion:	97	Resp:	38671
Ion	Ratio	Lower	Upper
97	100		
83	85.5	61.6	114.4
85	58.9	40.2	74.6
99	63.6	45.1	83.7

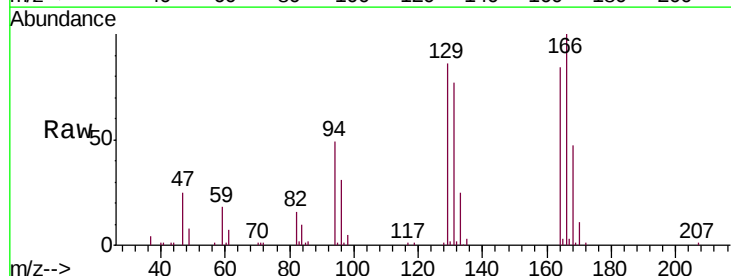


Abundance Ion 97.00 (96.70 to 97.70): VV011042.D (-2099) (-)

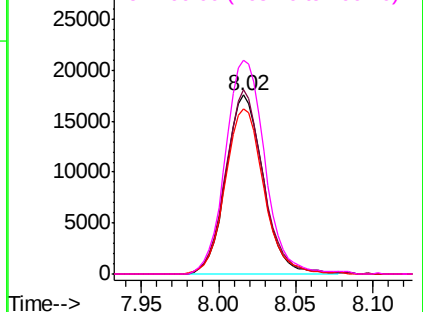
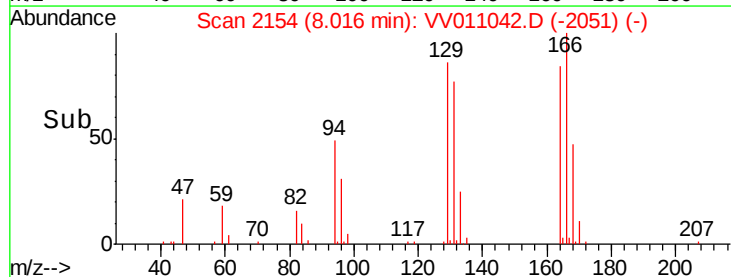


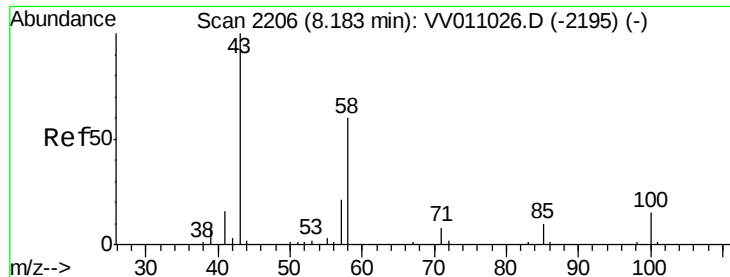
#47
 Tetrachloroethene
 Concen: 20.049 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV011042.D
 Acq: 23 May 2019 22:41

Tgt Ion:	164	Resp:	29409
Ion	Ratio	Lower	Upper
164	100		
129	102.9	67.8	125.8
131	92.6	64.1	119.1
166	119.6	86.1	159.9



Abundance Ion 164.00 (163.70 to 164.70): VV011042.D (-2051) (-)

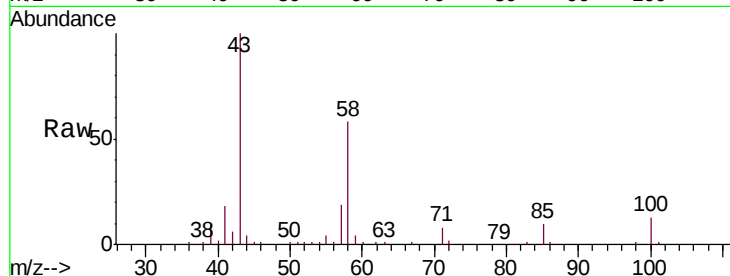




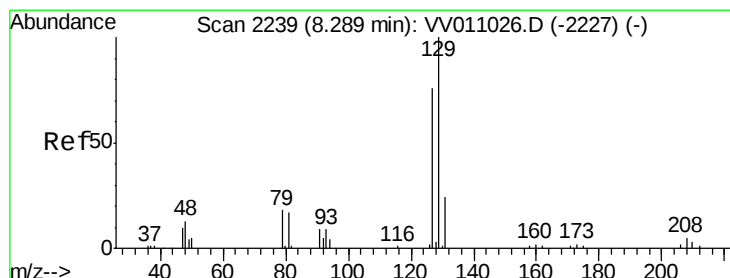
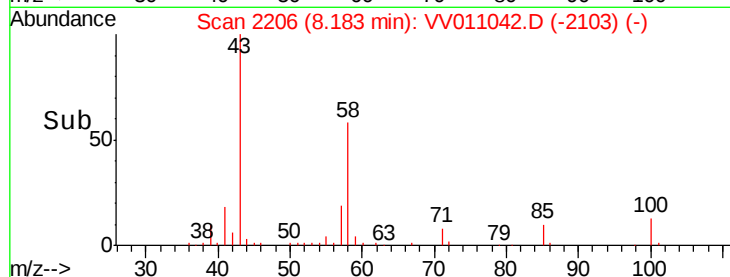
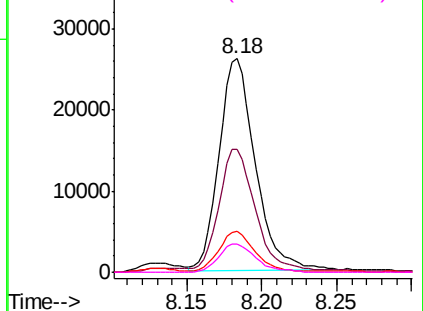
#49
2-Hexanone
Concen: 47.231 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV011042.D
Acq: 23 May 2019 22:41

Instrument :
MSVOA_V
ClientSampleId :
VSTD02572

Tgt Ion: 43 Resp: 44186
Ion Ratio Lower Upper
43 100
58 58.2 46.0 69.0
57 18.4 14.5 21.7
100 13.1 10.3 15.5

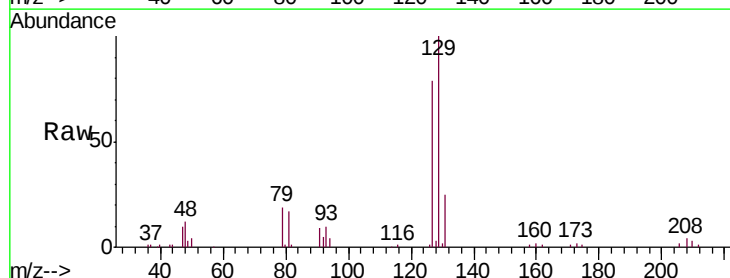


Abundance Ion 43.00 (42.70 to 43.70): VV011042.D (-2195) (-)
Ion 58.00 (57.70 to 58.70): VV011042.D (-2195) (-)
Ion 57.00 (56.70 to 57.70): VV011042.D (-2195) (-)
Ion 100.00 (99.70 to 100.70): VV011042.D (-2195) (-)

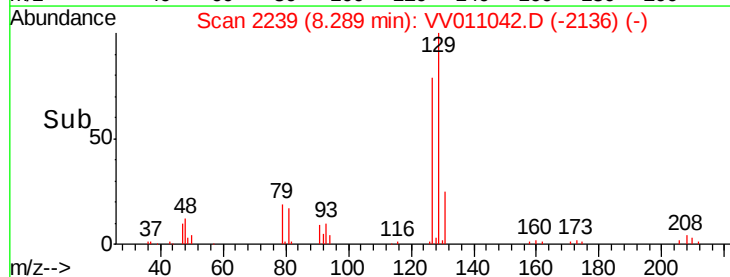
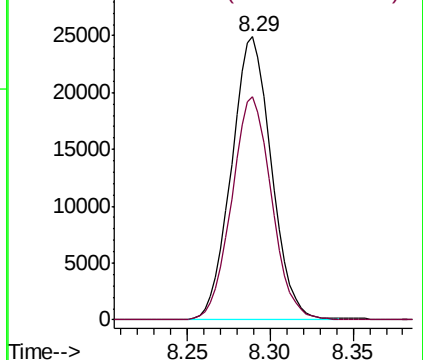


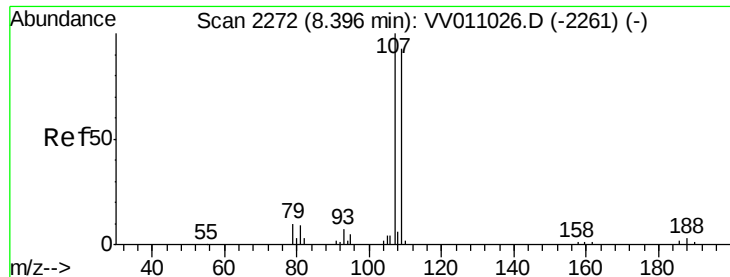
#50
Dibromochloromethane
Concen: 23.316 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV011042.D
Acq: 23 May 2019 22:41

Tgt Ion: 129 Resp: 41799
Ion Ratio Lower Upper
129 100
127 79.1 54.4 101.0



Abundance Ion 129.00 (128.70 to 129.70): VV011042.D (-2227) (-)
Ion 127.00 (126.70 to 127.70): VV011042.D (-2227) (-)





#51

1,2-Dibromoethane

Concen: 24.719 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV011042.D

Acq: 23 May 2019 22:41

Instrument :

MSVOA_V

ClientSampled :

VSTD02572

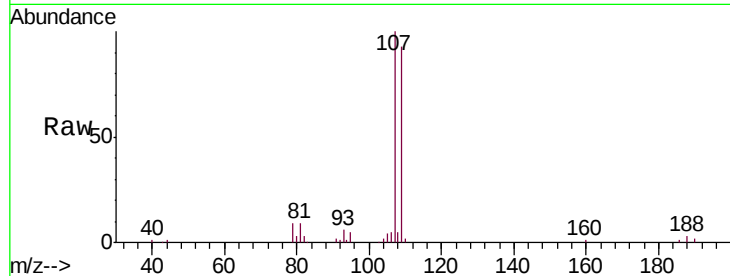
Tgt Ion:107 Resp: 36409

Ion Ratio Lower Upper

107 100

109 92.6 68.0 126.4

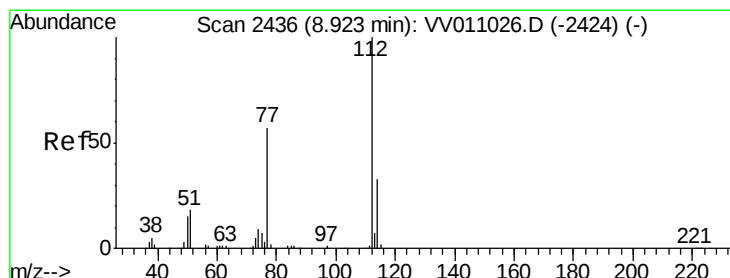
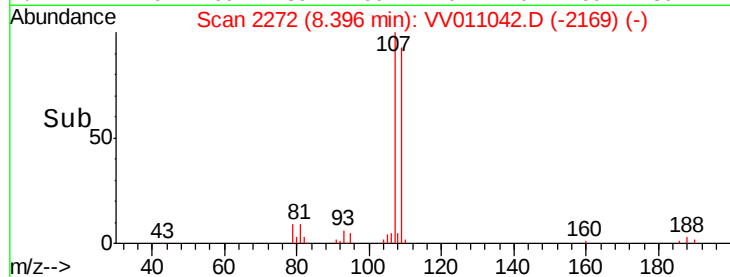
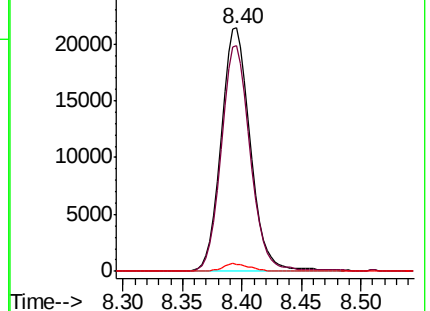
188 3.0 2.3 3.5



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 23.552 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV011042.D

Acq: 23 May 2019 22:41

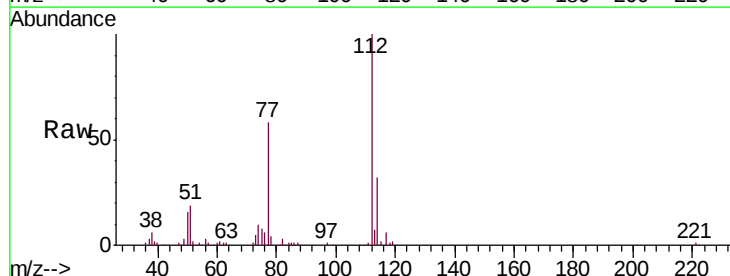
Tgt Ion:112 Resp: 121846

Ion Ratio Lower Upper

112 100

77 58.5 43.0 64.4

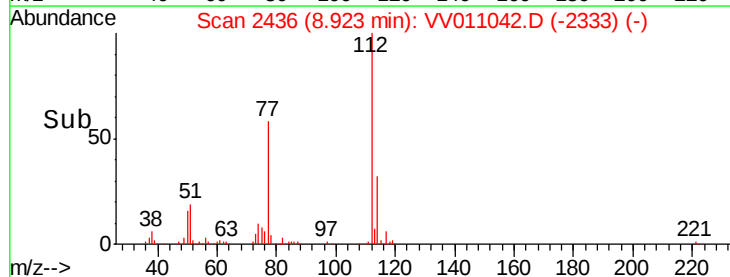
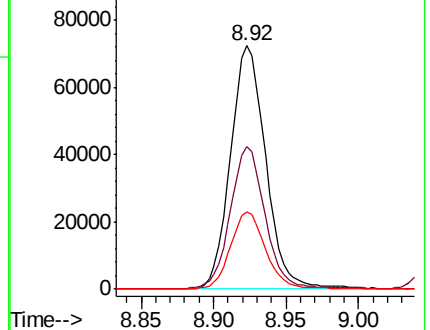
114 32.0 22.0 40.8

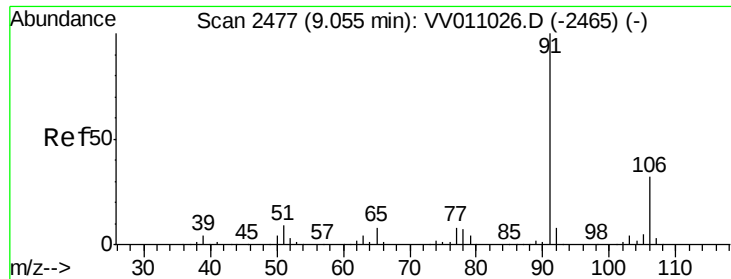


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 114.00 (113.70 to 114.70): V

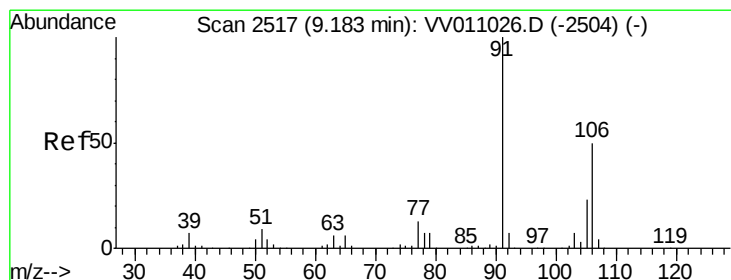
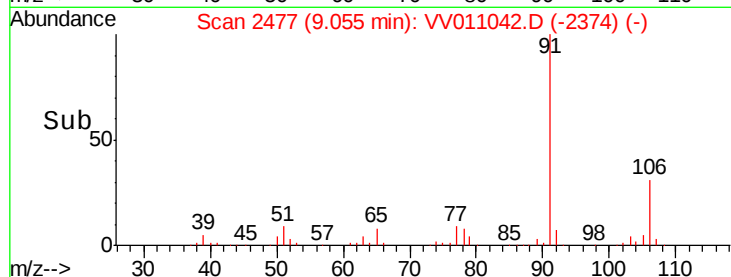
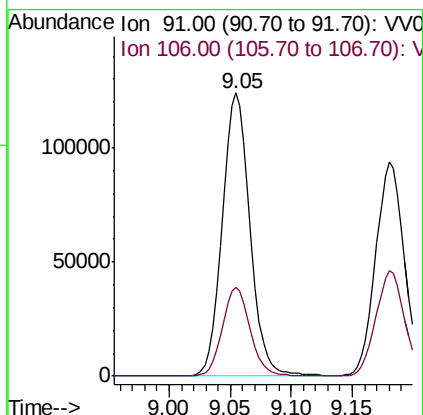
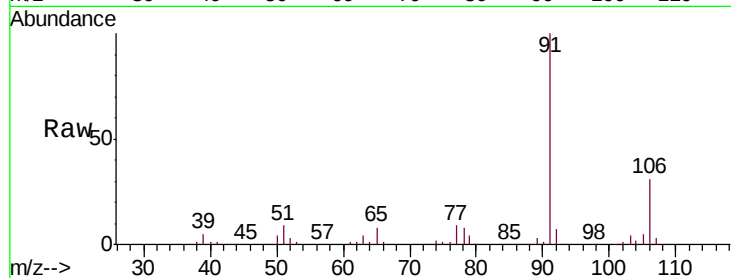




#53
Ethylbenzene
Concen: 24.153 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. 0.00 min
Lab File: VV011042.D
Acq: 23 May 2019 22:41

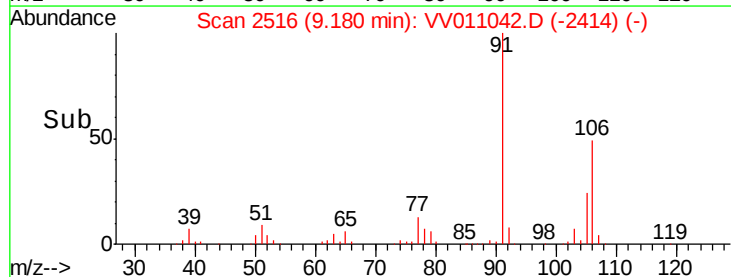
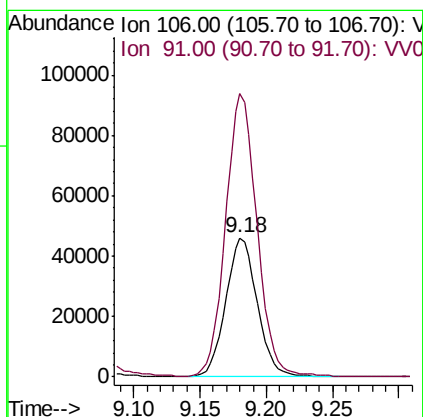
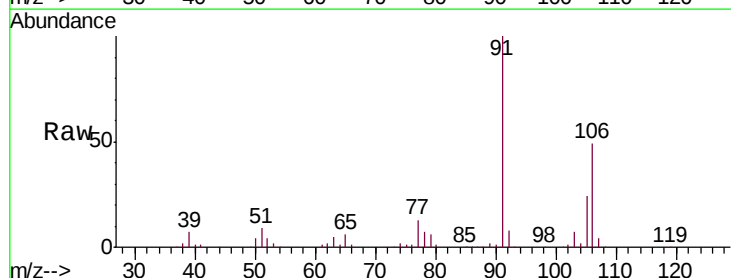
Instrument :
MSVOA_V
ClientSampleId :
VSTD02572

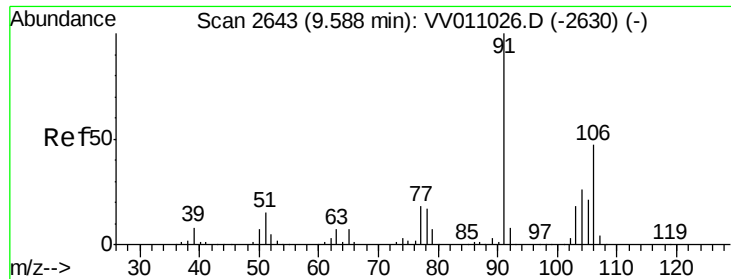
Tgt Ion: 91 Resp: 198638
Ion Ratio Lower Upper
91 100
106 31.4 22.4 41.6



#54
m,p-Xylene
Concen: 23.560 ug/L
RT: 9.18 min Scan# 2516
Delta R.T. -0.00 min
Lab File: VV011042.D
Acq: 23 May 2019 22:41

Tgt Ion: 106 Resp: 75518
Ion Ratio Lower Upper
106 100
91 204.1 138.3 256.9

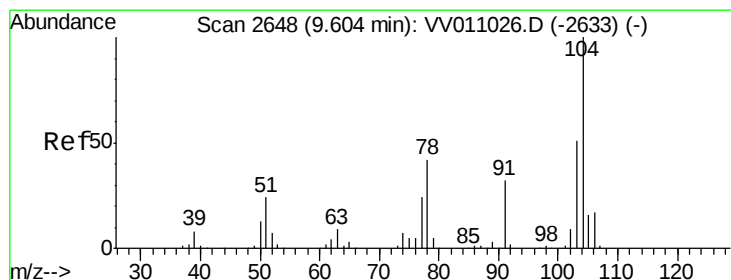
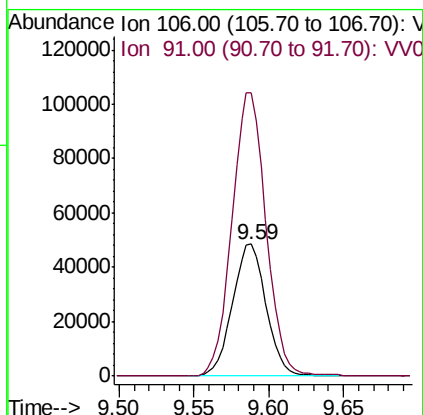
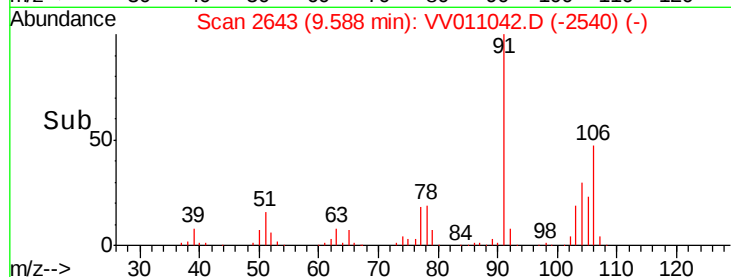
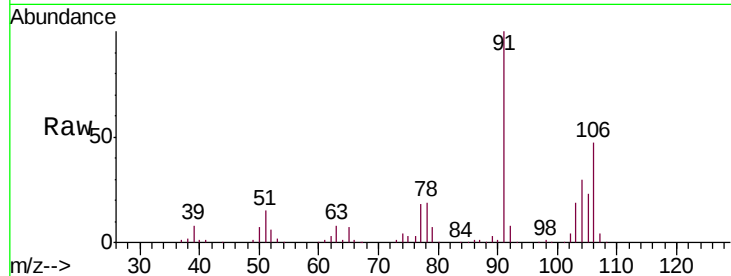




#55
o-xylene
Concen: 24.920 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.00 min
Lab File: VV011042.D
Acq: 23 May 2019 22:41

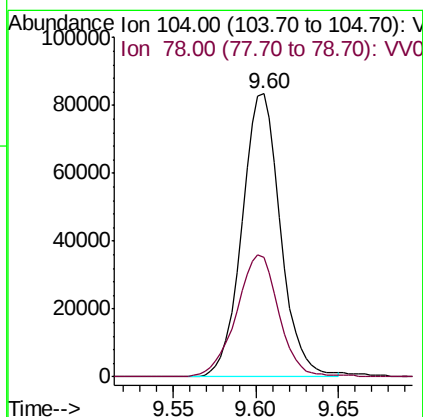
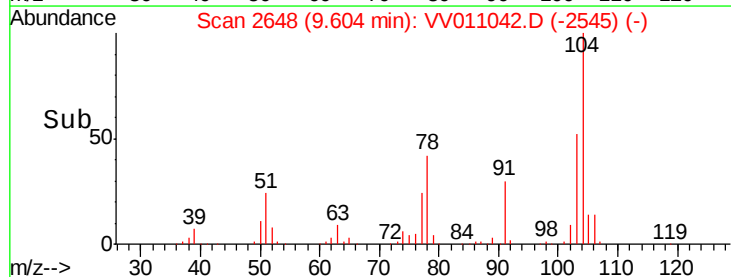
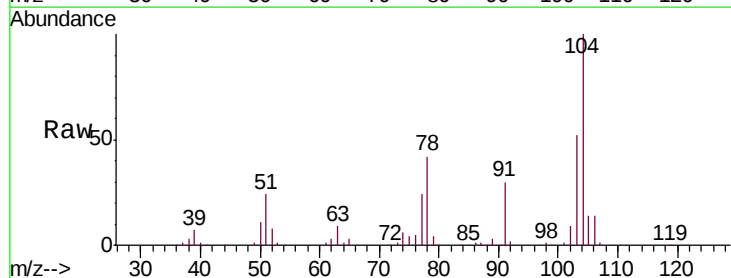
Instrument :
MSVOA_V
ClientSampleId :
VSTD02572

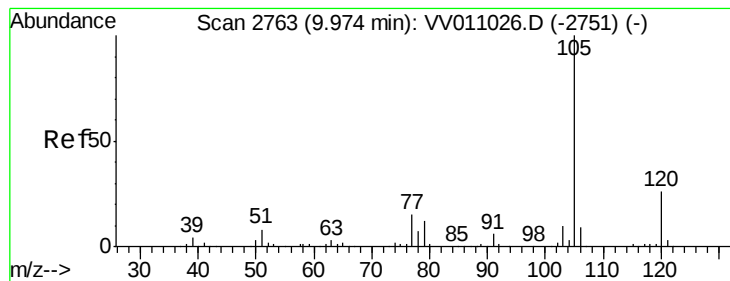
Tgt Ion:106 Resp: 76210
Ion Ratio Lower Upper
106 100
91 214.4 145.9 270.9



#56
Styrene
Concen: 25.517 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV011042.D
Acq: 23 May 2019 22:41

Tgt Ion:104 Resp: 134488
Ion Ratio Lower Upper
104 100
78 42.2 29.2 54.2





#57

Isopropylbenzene

Concen: 23.985 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV011042.D

Acq: 23 May 2019 22:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD02572

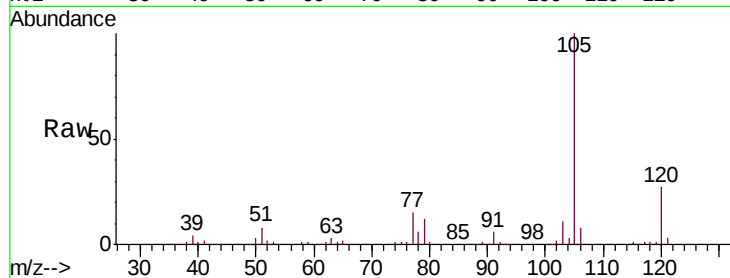
Tgt Ion: 105 Resp: 193504

Ion Ratio Lower Upper

105 100

120 26.6 21.9 32.9

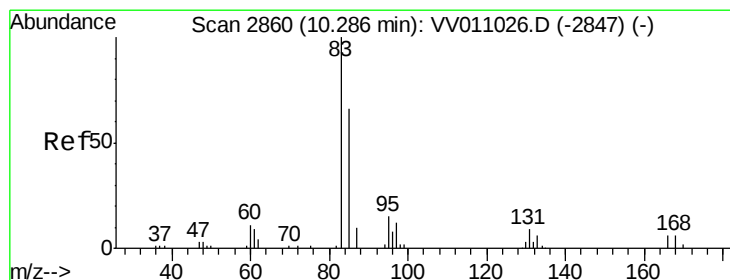
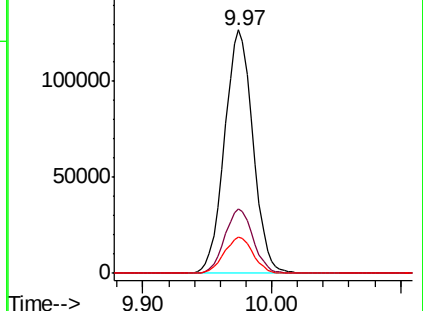
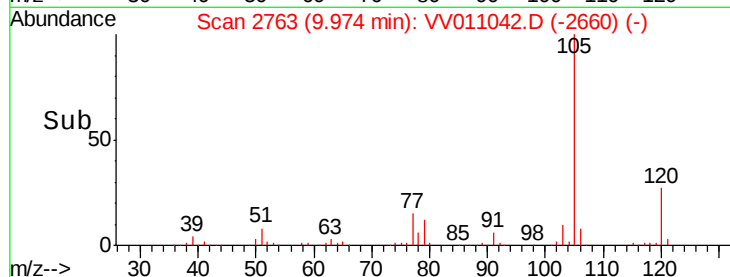
77 15.0 12.2 18.2



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: 25.314 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV011042.D

Acq: 23 May 2019 22:41

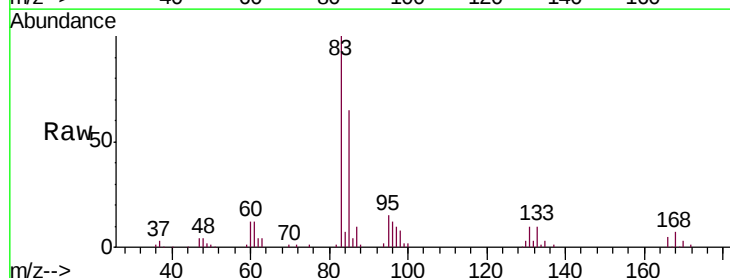
Tgt Ion: 83 Resp: 50767

Ion Ratio Lower Upper

83 100

85 65.3 44.4 82.5

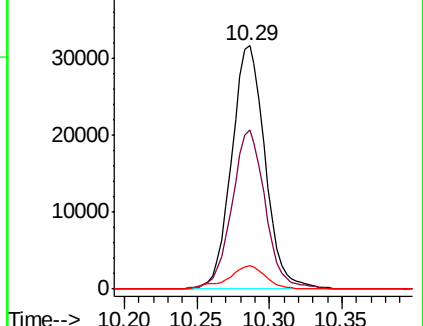
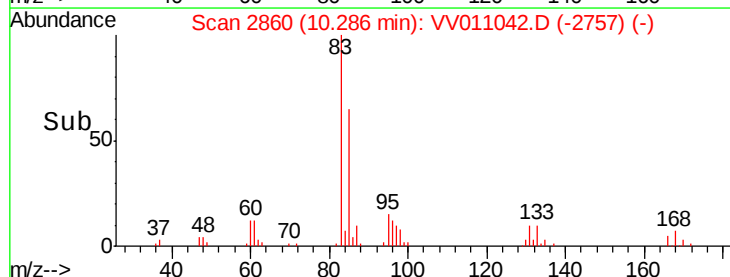
131 9.7 8.2 12.4

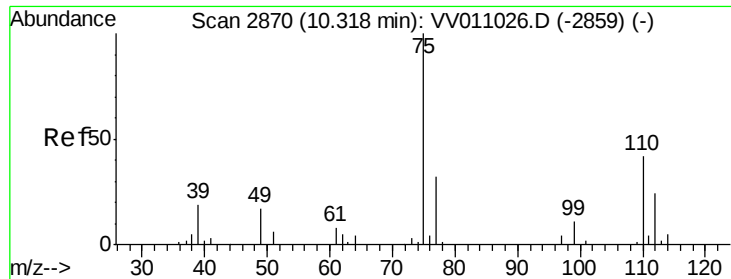


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 24.493 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV011042.D

Acq: 23 May 2019 22:41

Instrument :

MSVOA_V

ClientSampleId :

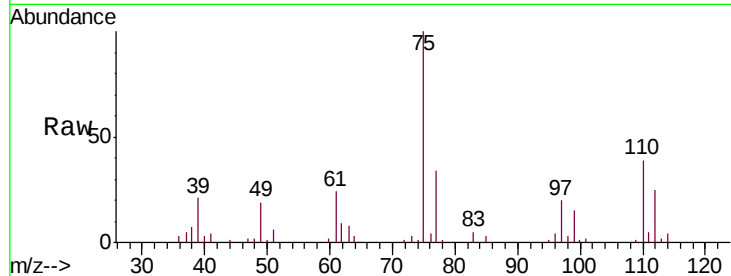
VSTD02572

Tgt Ion: 75 Resp: 36084

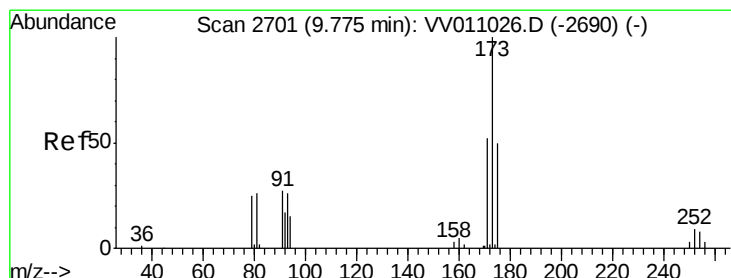
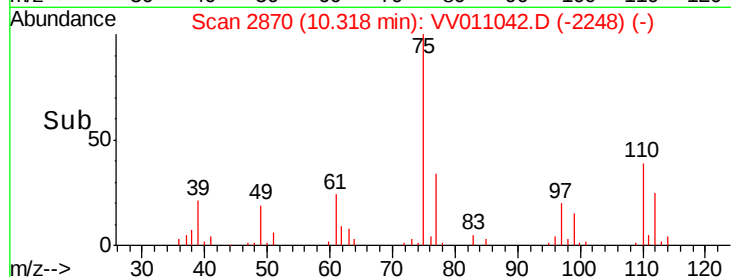
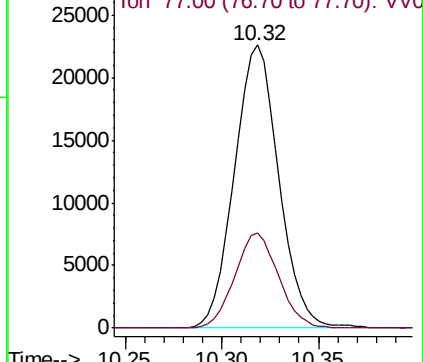
Ion Ratio Lower Upper

75 100

77 33.0 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VV011026.D (-2859) (-)



#62

Bromoform

Concen: 22.796 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV011042.D

Acq: 23 May 2019 22:41

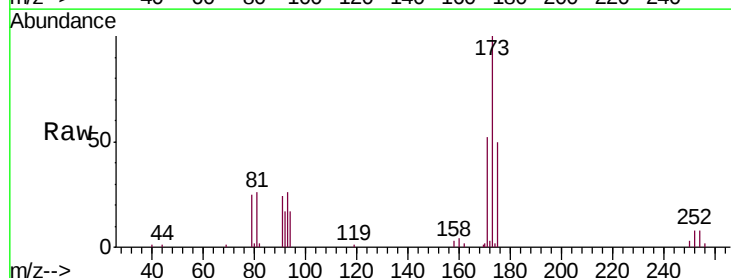
Tgt Ion: 173 Resp: 22691

Ion Ratio Lower Upper

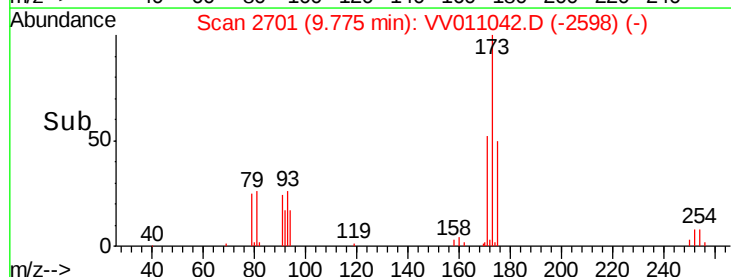
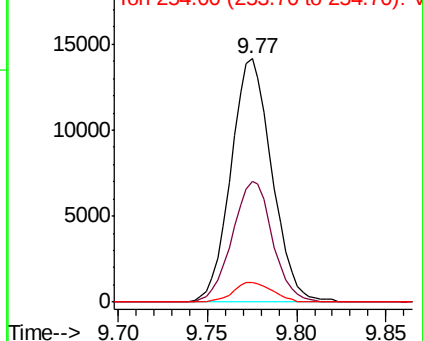
173 100

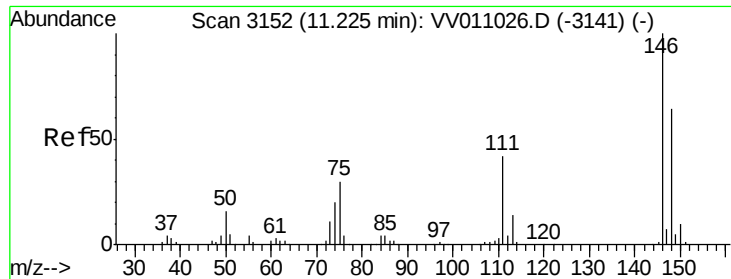
175 48.7 40.3 60.5

254 7.9 6.1 9.1



Abundance Ion 173.00 (172.70 to 173.70): VV011026.D (-2690) (-)

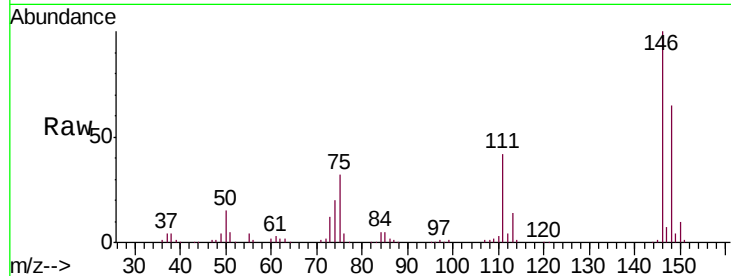




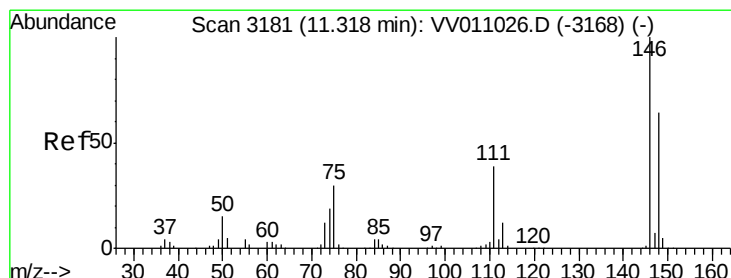
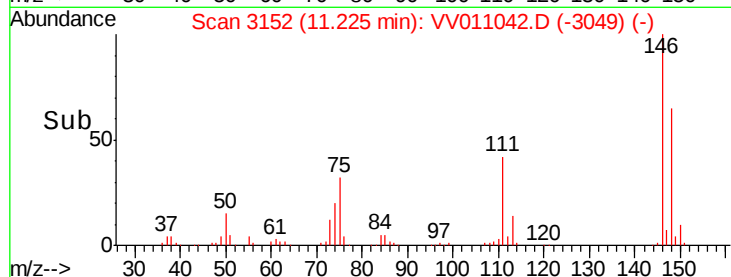
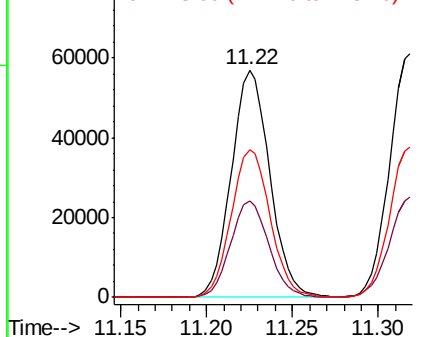
#63
 1,3-Dichlorobenzene
 Concen: 23.168 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV011042.D
 Acq: 23 May 2019 22:41

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02572

Tgt Ion:146 Resp: 88608
 Ion Ratio Lower Upper
 146 100
 111 42.3 28.4 52.8
 148 65.2 44.8 83.2

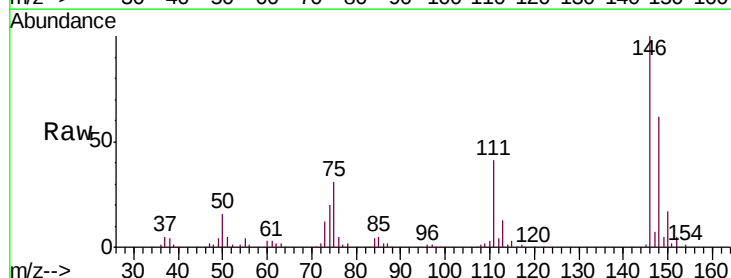


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

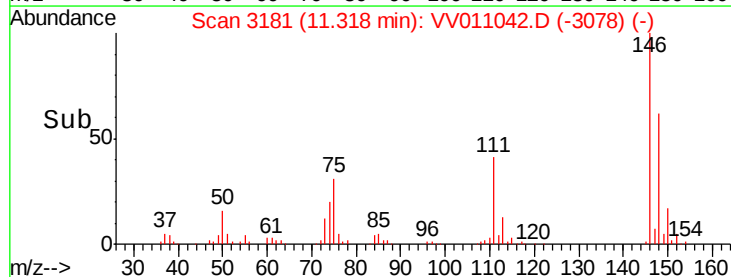
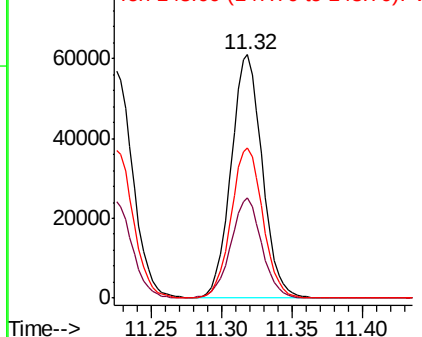


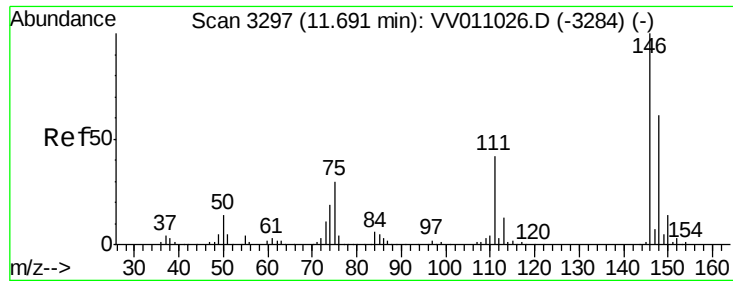
#64
 1,4-Dichlorobenzene
 Concen: 24.005 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV011042.D
 Acq: 23 May 2019 22:41

Tgt Ion:146 Resp: 94551
 Ion Ratio Lower Upper
 146 100
 111 41.0 26.5 49.1
 148 61.7 45.0 83.6



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





#65

1,2-Dichlorobenzene

Concen: 24.390 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV011042.D

Acq: 23 May 2019 22:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD02572

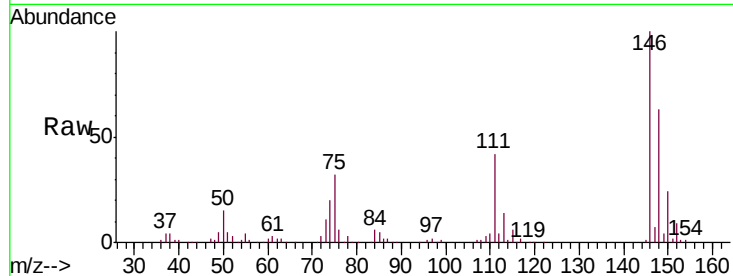
Tgt Ion:146 Resp: 90446

Ion Ratio Lower Upper

146 100

111 41.7 32.8 49.2

148 62.8 51.9 77.9

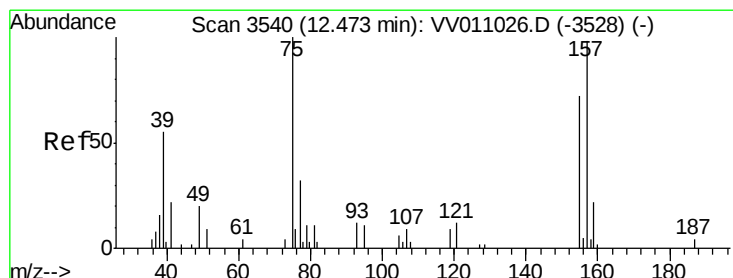
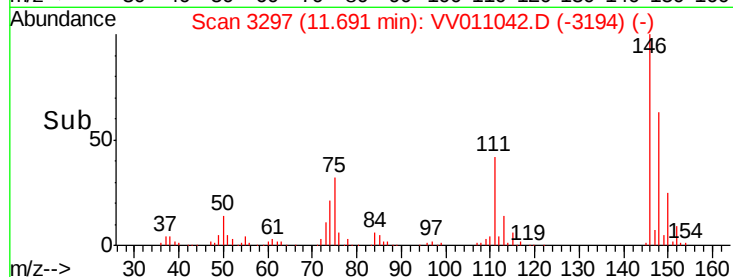
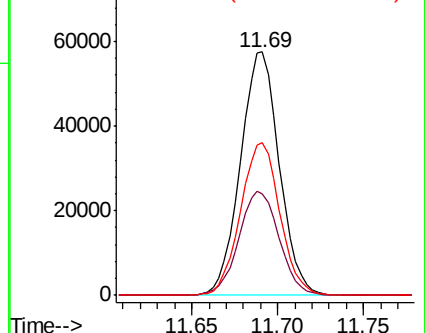


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 26.545 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV011042.D

Acq: 23 May 2019 22:41

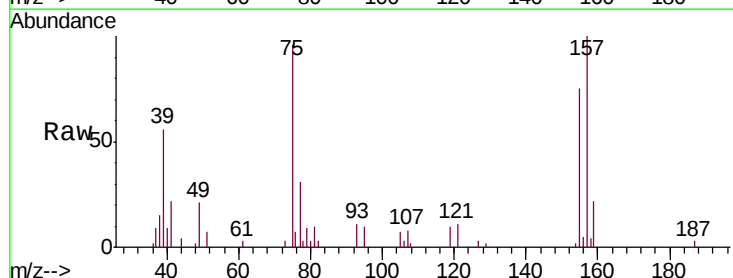
Tgt Ion: 75 Resp: 7820

Ion Ratio Lower Upper

75 100

157 103.8 87.0 130.4

155 78.3 67.8 101.8

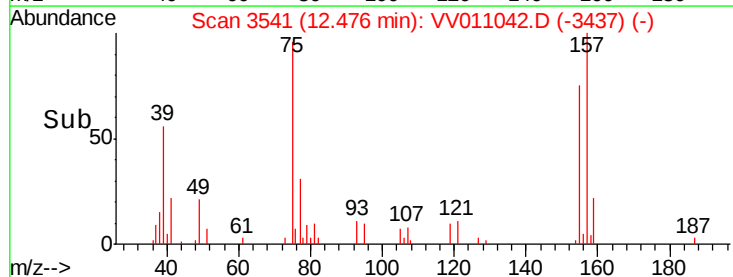
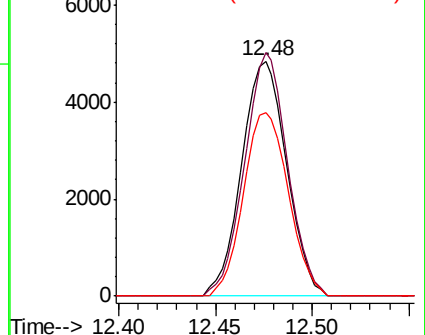


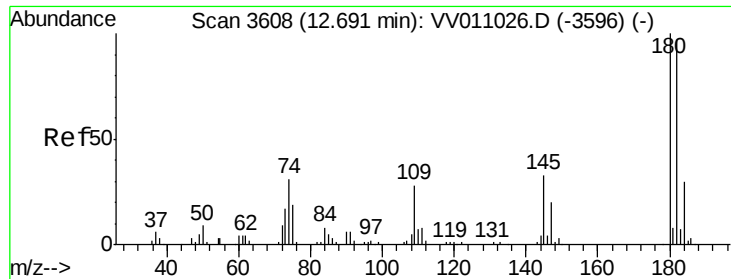
Abundance

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

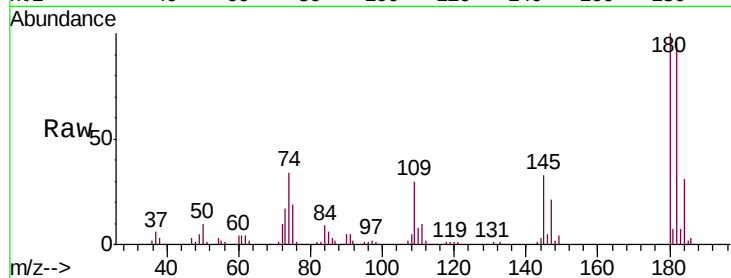




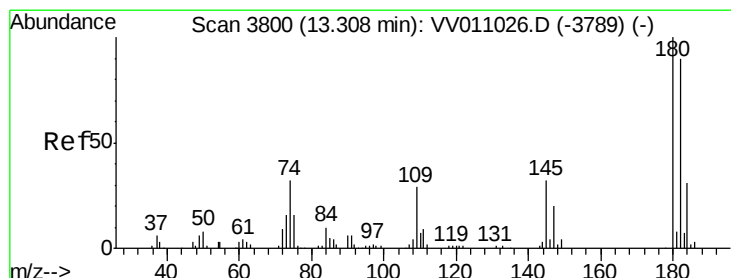
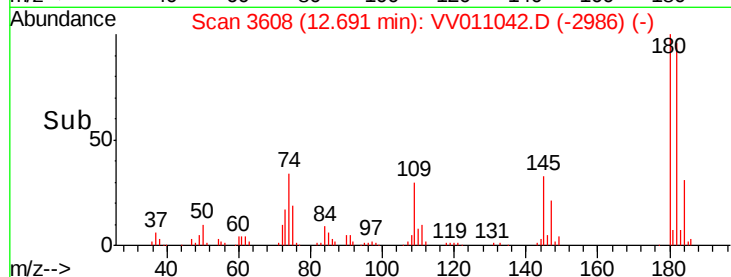
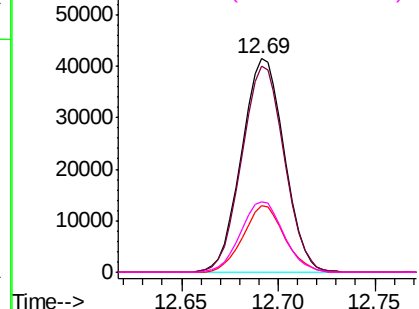
#67
 1,3,5-Trichlorobenzene
 Concen: 22.740 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV011042.D
 Acq: 23 May 2019 22:41

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02572

Tgt Ion:180 Resp: 63797
 Ion Ratio Lower Upper
 180 100
 182 96.1 76.2 114.2
 184 30.4 24.6 37.0
 145 33.3 24.1 36.1

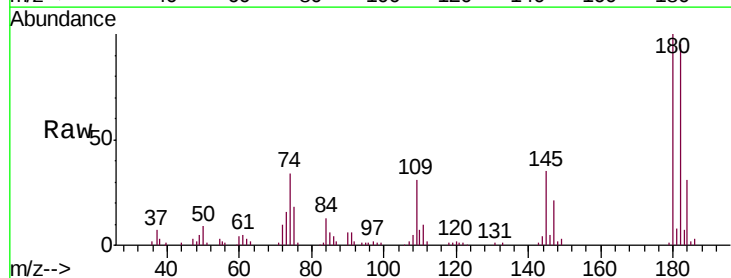


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

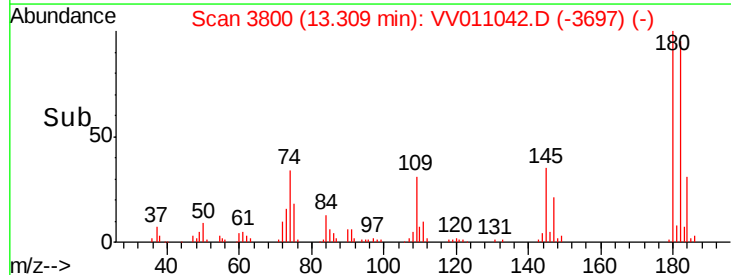
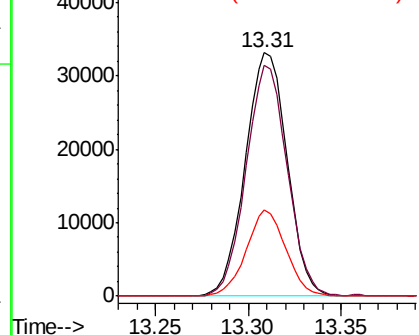


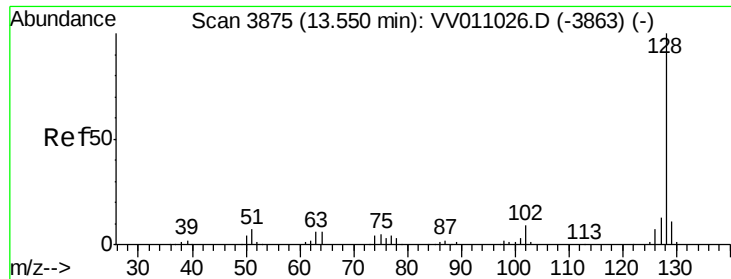
#68
 1,2,4-trichlorobenzene
 Concen: 23.415 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV011042.D
 Acq: 23 May 2019 22:41

Tgt Ion:180 Resp: 51920
 Ion Ratio Lower Upper
 180 100
 182 93.2 75.4 113.2
 145 33.4 25.1 37.7



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: 26.151 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV011042.D

Acq: 23 May 2019 22:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD02572

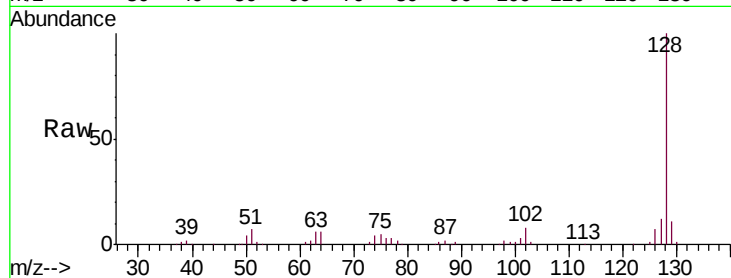
Tgt Ion:128 Resp: 116241

Ion Ratio Lower Upper

128 100

129 10.6 8.6 12.8

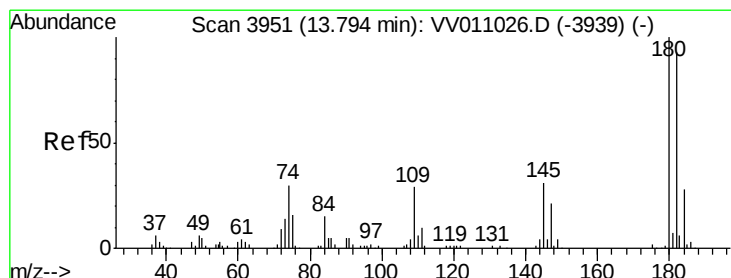
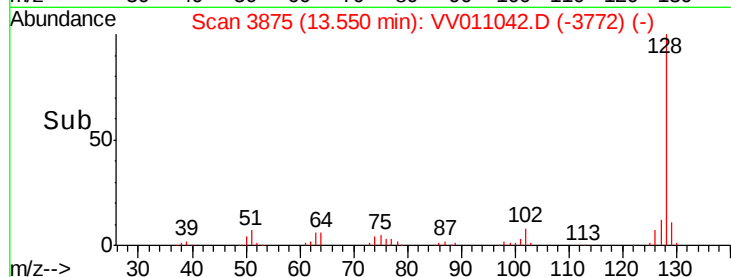
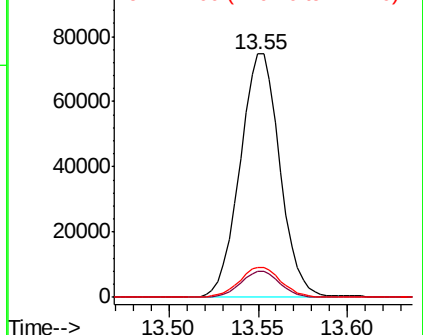
127 12.7 10.3 15.5



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: 24.301 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV011042.D

Acq: 23 May 2019 22:41

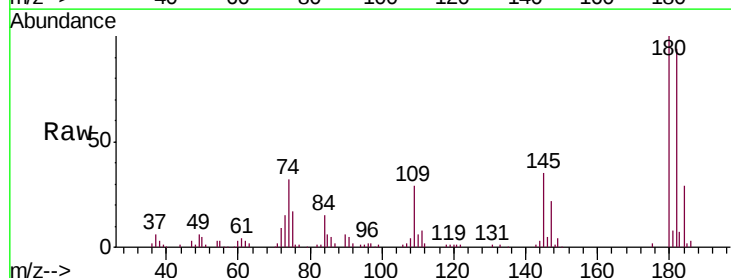
Tgt Ion:180 Resp: 52607

Ion Ratio Lower Upper

180 100

182 93.8 75.7 113.5

145 35.0 26.9 40.3



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

