

Data File : VU028964.D
Acq On : 27 Dec 2018 13:55
Operator : MD/SY
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

Quant Time: Dec 28 00:51:28 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 28 00:46:50 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	295051	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	277976	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	136383	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	99558	42.09	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	84.18%
7) Chloroethane-d5	1.67	69	83774	45.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.70%
11) 1,1-Dichloroethene-d2	2.27	63	188378	47.36	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.72%
21) 2-Butanone-d5	4.17	46	147732	89.14	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.14%
24) Chloroform-d	4.64	84	181707	48.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.70%
26) 1,2-Dichloroethane-d4	5.31	65	108876	47.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.98%
32) Benzene-d6	5.34	84	374353	47.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.34%
36) 1,2-Dichloropropane-d6	6.33	67	125148	46.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.82%
41) Toluene-d8	7.56	98	350776	49.29	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.58%
43) trans-1,3-Dichloropropene-	7.85	79	60121	50.29	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.58%
47) 2-Hexanone-d5	8.31	63	124577	98.32	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.32%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	175928	47.53	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.06%
64) 1,2-Dichlorobenzene-d4	11.86	152	139476	50.56	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.12%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	126647	52.640 ug/L	100
3) Chloromethane	1.33	50	143306	43.804 ug/L	97
5) Vinyl chloride	1.40	62	152253	52.681 ug/L	99
6) Bromomethane	1.61	94	68523	55.661 ug/L	99
8) Chloroethane	1.69	64	91423	55.419 ug/L	98
9) Trichlorofluoromethane	1.88	101	178704	60.466 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	111013	58.056 ug/L	98
12) 1,1-Dichloroethene	2.28	96	108334	57.265 ug/L #	78
13) Acetone	2.32	43	132630	78.531 ug/L	99
14) Carbon disulfide	2.48	76	330752	50.066 ug/L	99
15) Methyl Acetate	2.61	43	121898	46.295 ug/L	95
16) Methylene chloride	2.70	84	127548	54.672 ug/L	93
17) trans-1,2-Dichloroethene	2.98	96	114450	55.841 ug/L	97
18) Methyl tert-butyl Ether	3.00	73	367301	58.279 ug/L	97
19) 1,1-Dichloroethane	3.44	63	212293	53.284 ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	133765	57.614 ug/L	93
22) 2-Butanone	4.26	43	177434	86.274 ug/L	94

Data File : VU028964.D
Acq On : 27 Dec 2018 13:55
Operator : MD/SY
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

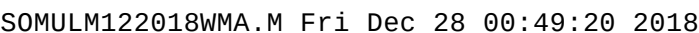
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

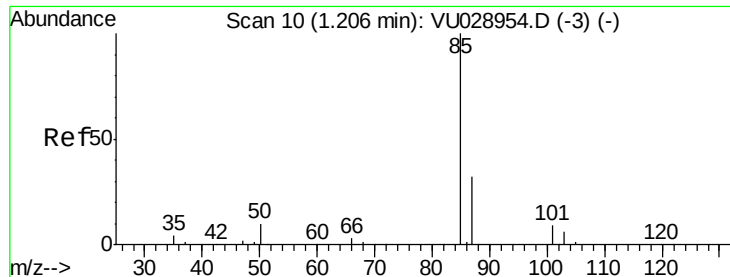
Quant Time: Dec 28 00:51:28 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 28 00:46:50 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	65429	59.115	ug/L	86
25) Chloroform	4.67	83	211445	55.759	ug/L	97
27) 1,2-Dichloroethane	5.40	62	155952	55.337	ug/L	98
29) Cyclohexane	4.99	56	193041	52.177	ug/L	93
30) 1,1,1-Trichloroethane	4.91	97	172525	58.639	ug/L	98
31) Carbon tetrachloride	5.13	117	138553	58.398	ug/L	100
33) Benzene	5.39	78	493805	55.799	ug/L	100
34) Trichloroethene	6.18	95	122136	57.165	ug/L	92
35) Methylcyclohexane	6.41	83	199305	56.009	ug/L	94
37) 1,2-Dichloropropane	6.43	63	131839	53.294	ug/L	98
38) Bromodichloromethane	6.75	83	154764	56.493	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	200260	56.782	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	325694	97.951	ug/L	96
42) Toluene	7.63	91	528037	58.861	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	180114	57.292	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	123143	58.220	ug/L	97
46) Tetrachloroethene	8.22	164	99520	60.480	ug/L	97
48) 2-Hexanone	8.36	43	250264	91.703	ug/L	95
49) Dibromochloromethane	8.48	129	121268	57.560	ug/L	98
50) 1,2-Dibromoethane	8.58	107	129456	58.826	ug/L	99
51) Chlorobenzene	9.12	112	335282	59.302	ug/L	98
52) Ethylbenzene	9.25	91	566601	58.780	ug/L	98
53) m,p-Xylene	9.37	106	218388	61.267	ug/L	96
54) o-xylene	9.78	106	214854	60.140	ug/L	100
55) Styrene	9.79	104	367464	60.732	ug/L	100
56) Isopropylbenzene	10.16	105	551667	60.872	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	206309	53.691	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	158730	53.768	ug/L	99
61) Bromoform	9.96	173	92788	54.883	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	258728	59.719	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	259334	58.100	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	260761	57.698	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.66	75	39321	50.440	ug/L	95
67) 1,3,5-Trichlorobenzene	12.89	180	192438	60.244	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	171249	64.020	ug/L	99
69) Naphthalene	13.74	128	569094	61.279	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	175672	60.905	ug/L	99

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

Quant Time: Dec 28 00:51:28 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 28 00:46:50 2018
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 52.640 ug/L

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

Instrument :

MSVOA_U

ClientSampled :

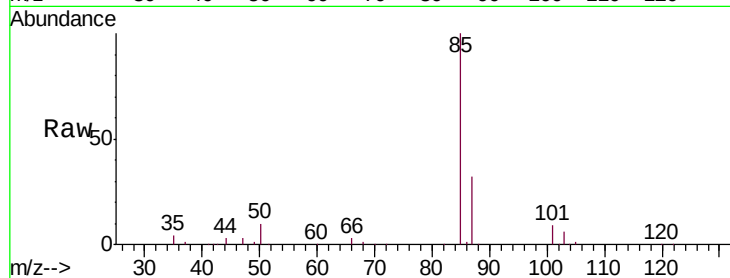
VSTD05049

Tgt Ion: 85 Resp: 126647

Ion Ratio Lower Upper

85 100

87 32.6 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

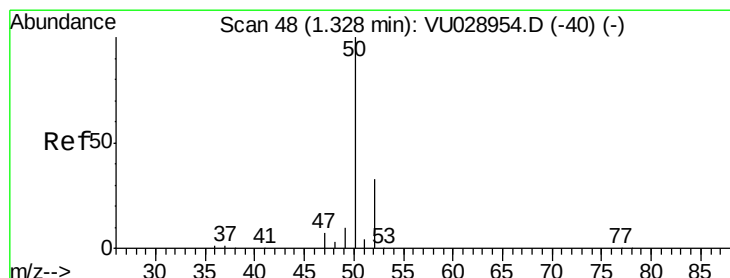
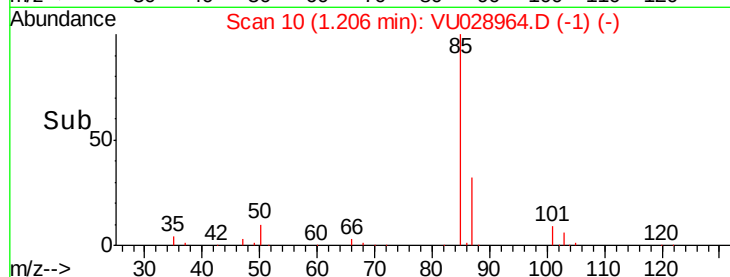
150000

100000

50000

0

Time--> 1.15 1.20 1.25



#3

Chloromethane

Concen: 43.804 ug/L

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU028964.D

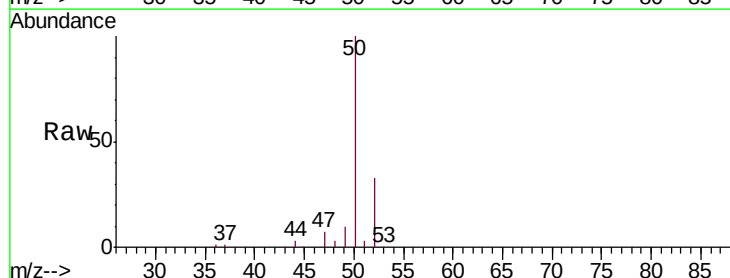
Acq: 27 Dec 2018 13:55

Tgt Ion: 50 Resp: 143306

Ion Ratio Lower Upper

50 100

52 33.5 22.3 41.3



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

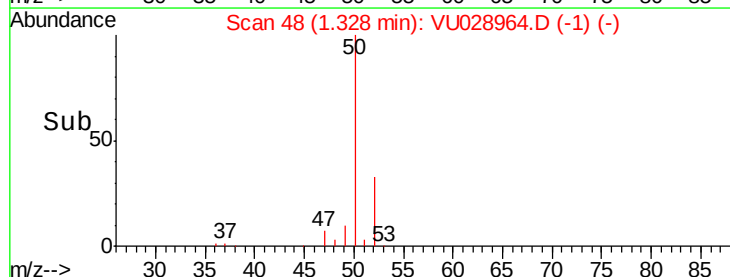
150000

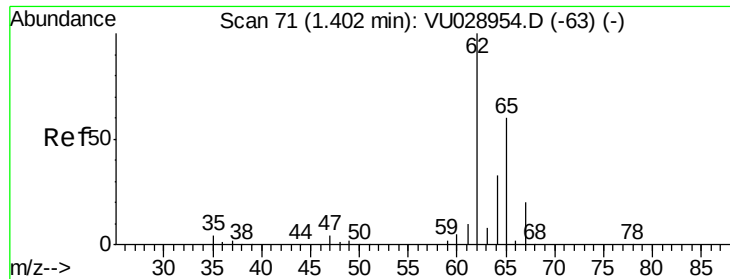
100000

50000

0

Time--> 1.30 1.35





#5

Vinyl chloride

Concen: 52.681 ug/L

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

Instrument :

MSVOA_U

ClientSampleId :

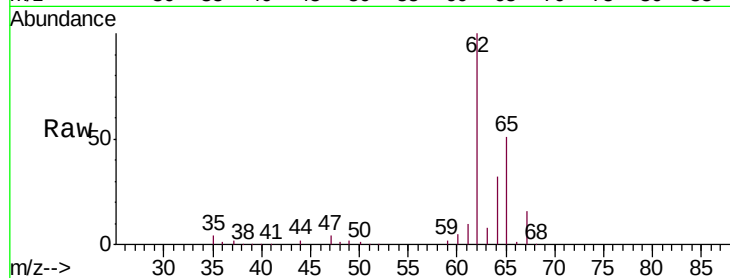
VSTD05049

Tgt Ion: 62 Resp: 152253

Ion Ratio Lower Upper

62 100

64 32.2 22.3 41.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

150000

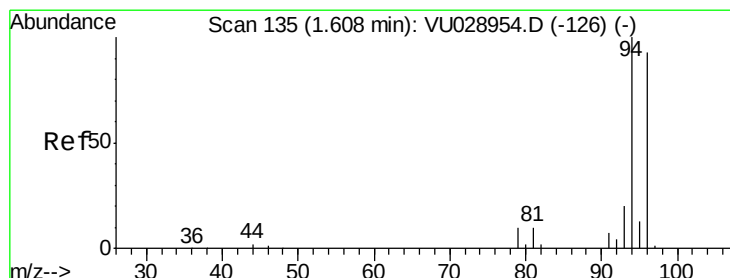
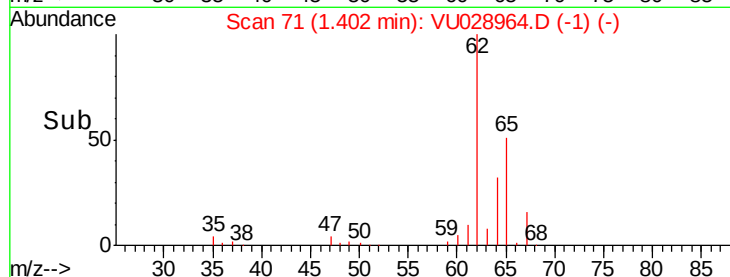
100000

50000

0

1.35 1.40 1.45

Time-->



#6

Bromomethane

Concen: 55.661 ug/L

RT: 1.61 min Scan# 137

Delta R.T. 0.01 min

Lab File: VU028964.D

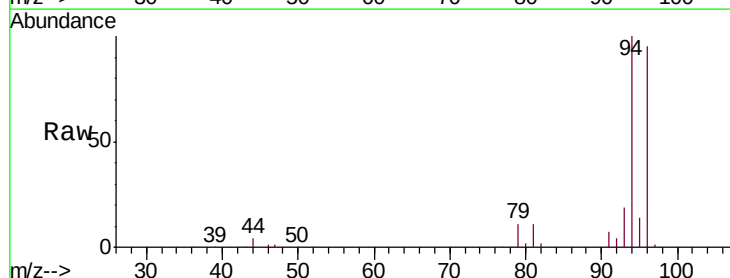
Acq: 27 Dec 2018 13:55

Tgt Ion: 94 Resp: 68523

Ion Ratio Lower Upper

94 100

96 95.4 67.3 125.1



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

60000

50000

40000

30000

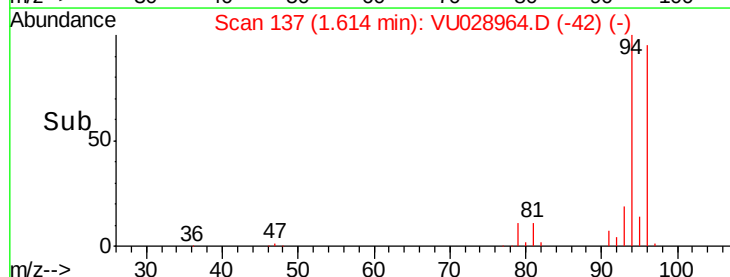
20000

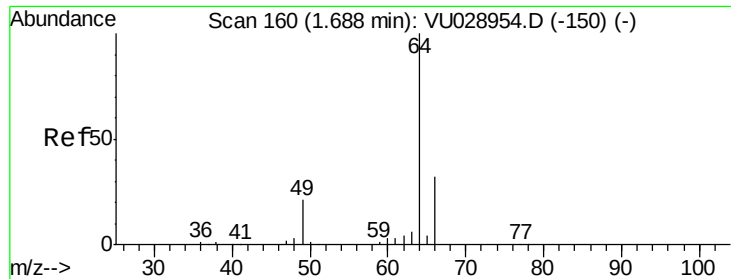
10000

0

1.55 1.60 1.65

Time-->





#8

Chloroethane

Concen: 55.419 ug/L

RT: 1.69 min Scan# 161

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

Instrument :

MSVOA_U

ClientSampleId :

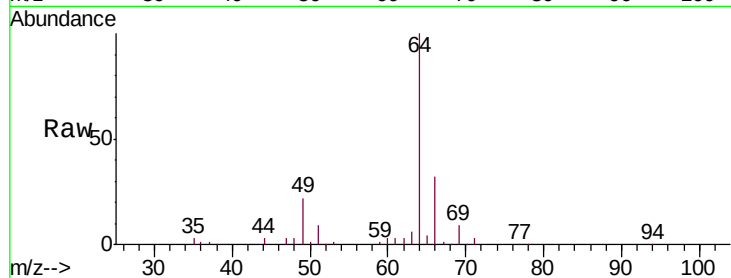
VSTD05049

Tgt Ion: 64 Resp: 91423

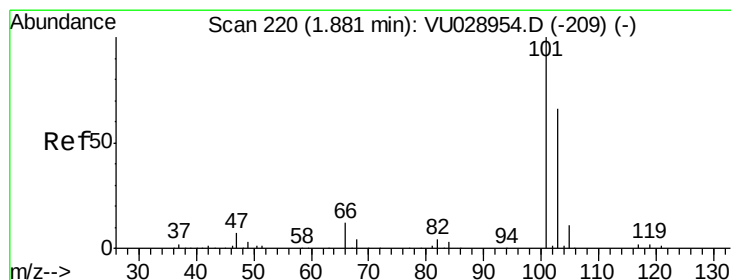
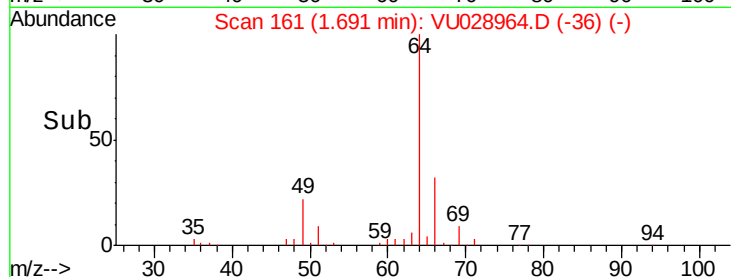
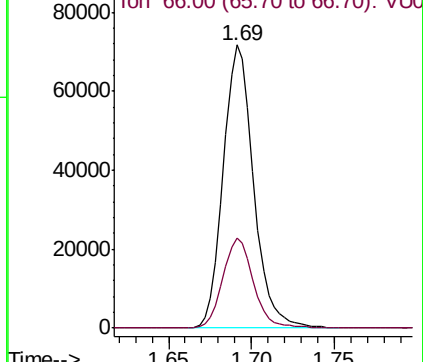
Ion Ratio Lower Upper

64 100

66 32.0 21.5 39.9



Abundance Ion 64.00 (63.70 to 64.70): VU028954.D (-150) (-)



#9

Trichlorofluoromethane

Concen: 60.466 ug/L

RT: 1.88 min Scan# 221

Delta R.T. 0.00 min

Lab File: VU028964.D

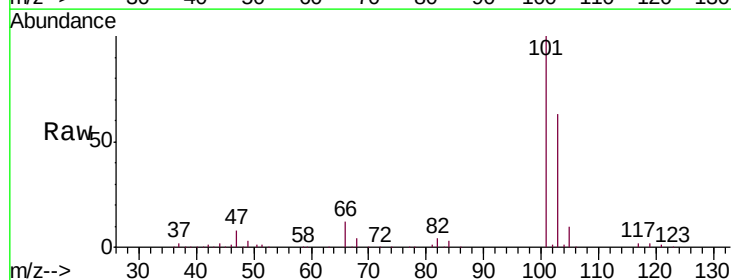
Acq: 27 Dec 2018 13:55

Tgt Ion: 101 Resp: 178704

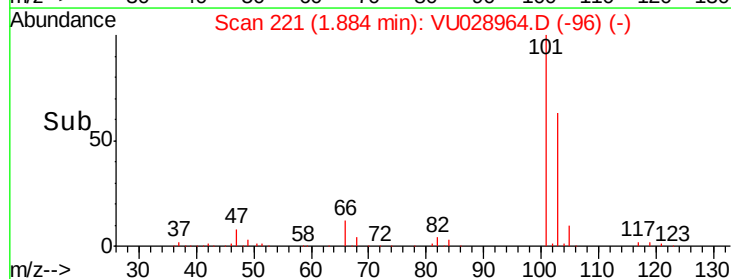
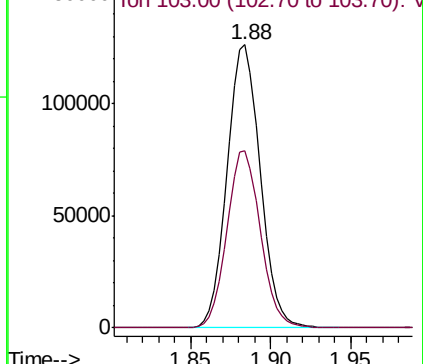
Ion Ratio Lower Upper

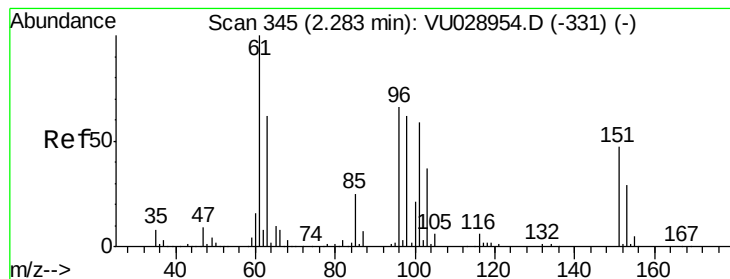
101 100

103 63.0 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): VU028954.D (-209) (-)





#10

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

Concen: 58.056 ug/L

RT: 2.29 min Scan# 346

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

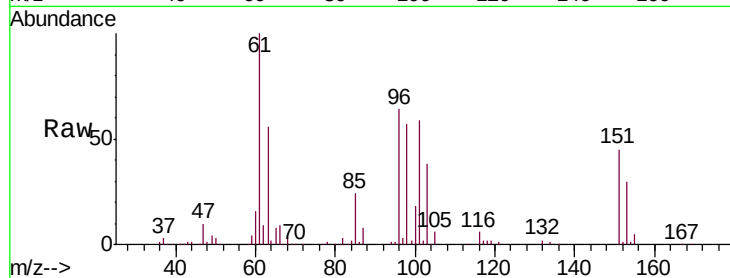
Tgt Ion: 101 Resp: 111013

Ion Ratio Lower Upper

101 100

85 42.1 33.8 50.6

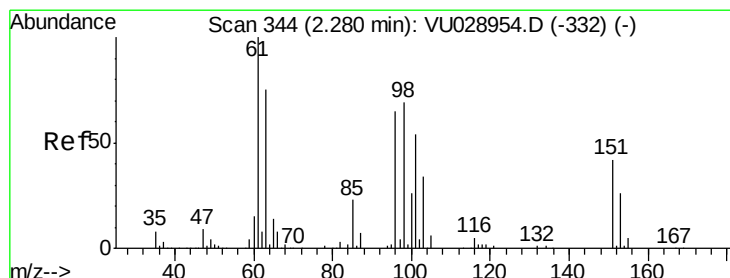
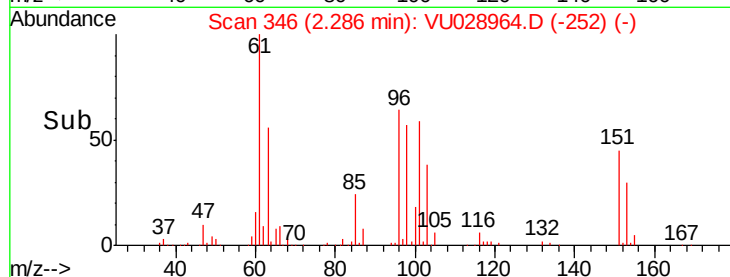
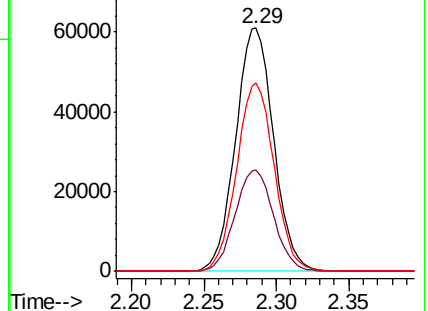
151 76.5 59.4 89.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 57.265 ug/L

RT: 2.28 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

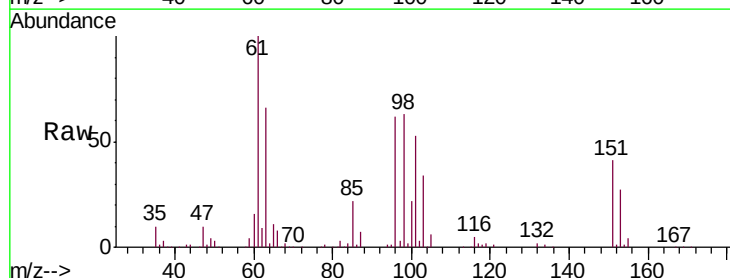
Tgt Ion: 96 Resp: 108334

Ion Ratio Lower Upper

96 100

61 160.4 119.3 221.5

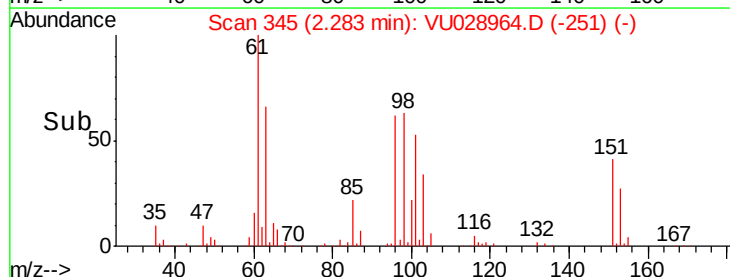
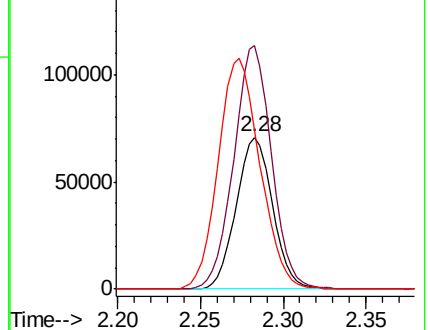
63 105.2 107.4 199.6#

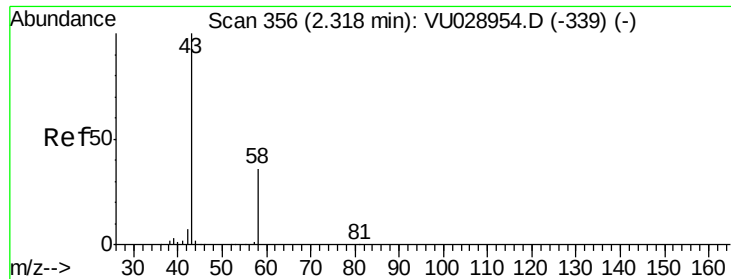


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 78.531 ug/L

RT: 2.32 min Scan# 356

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

Instrument :

MSVOA_U

ClientSampleId :

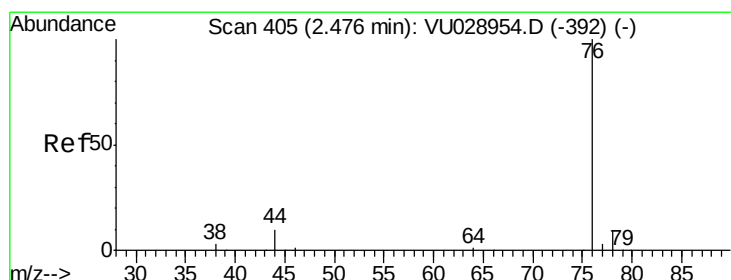
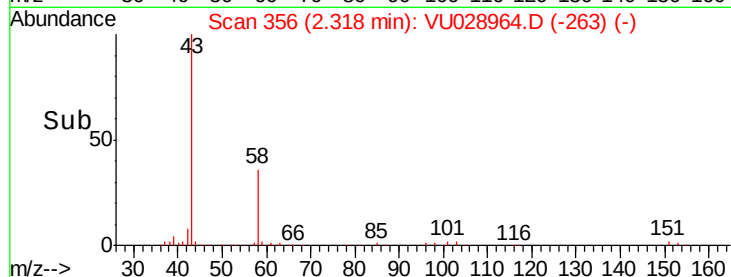
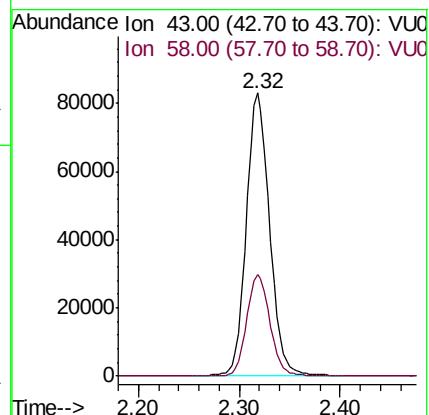
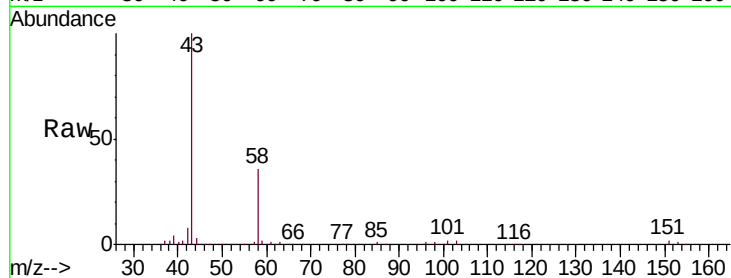
VSTD05049

Tgt Ion: 43 Resp: 132630

Ion Ratio Lower Upper

43 100

58 35.7 0.0 70.2



#14

Carbon disulfide

Concen: 50.066 ug/L

RT: 2.48 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU028964.D

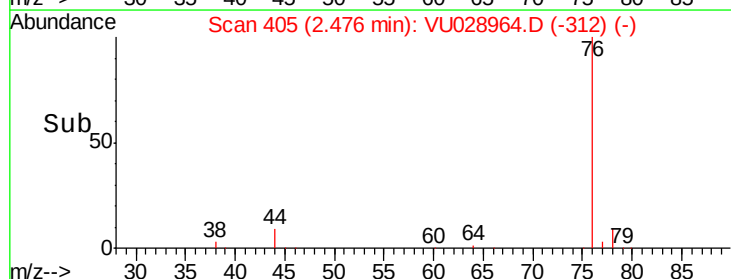
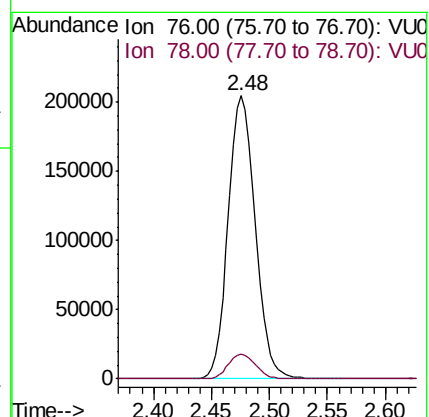
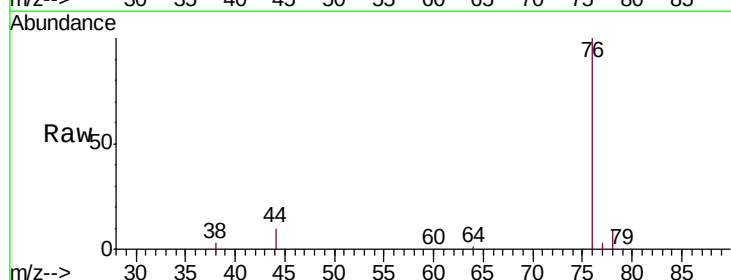
Acq: 27 Dec 2018 13:55

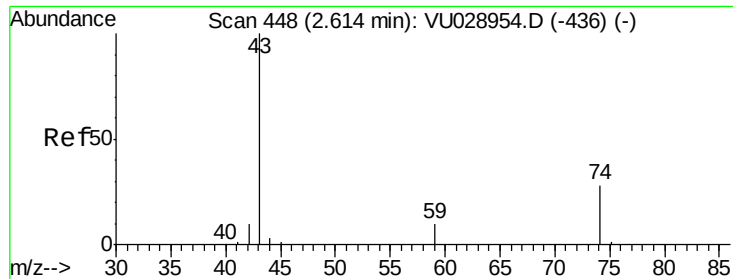
Tgt Ion: 76 Resp: 330752

Ion Ratio Lower Upper

76 100

78 8.9 7.4 11.0

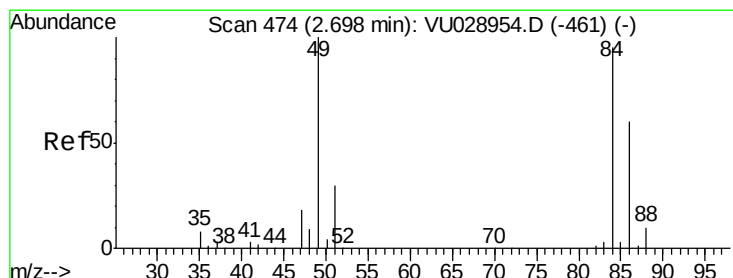
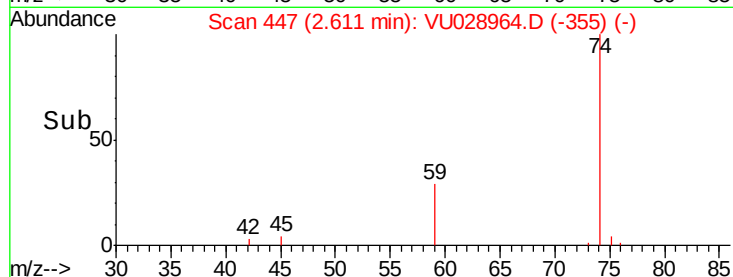
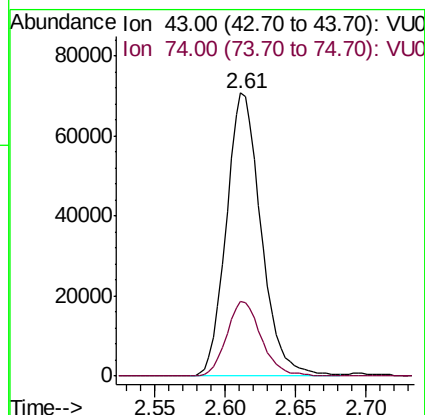
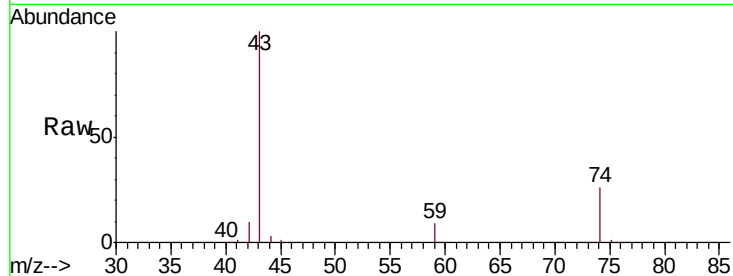




#15
Methyl Acetate
Concen: 46.295 ug/L
RT: 2.61 min Scan# 447
Delta R.T. -0.00 min
Lab File: VU028964.D
Acq: 27 Dec 2018 13:55

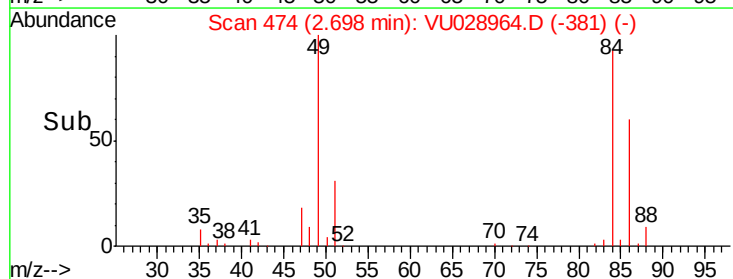
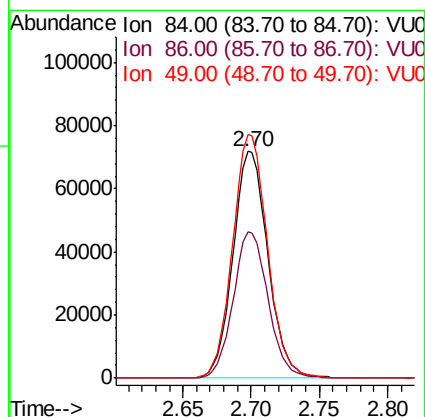
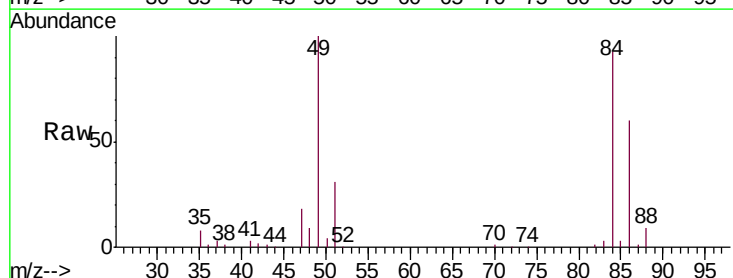
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

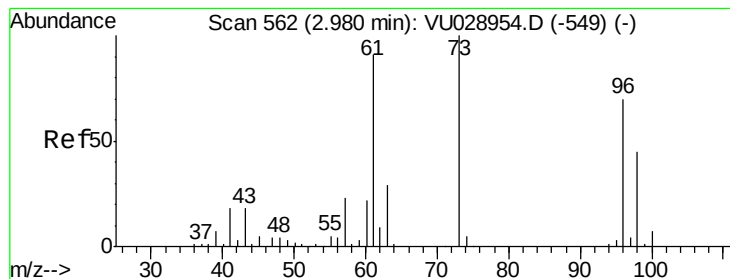
Tgt Ion: 43 Resp: 121898
Ion Ratio Lower Upper
43 100
74 26.1 19.0 28.4



#16
Methylene chloride
Concen: 54.672 ug/L
RT: 2.70 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU028964.D
Acq: 27 Dec 2018 13:55

Tgt Ion: 84 Resp: 127548
Ion Ratio Lower Upper
84 100
86 64.4 44.9 83.3
49 107.4 83.9 155.7





#17

trans-1,2-Dichloroethene

Concen: 55.841 ug/L

RT: 2.98 min Scan# 562

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

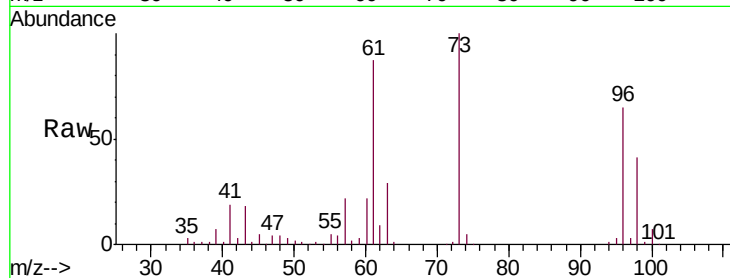
Tgt Ion: 96 Resp: 114450

Ion Ratio Lower Upper

96 100

61 135.4 97.9 181.7

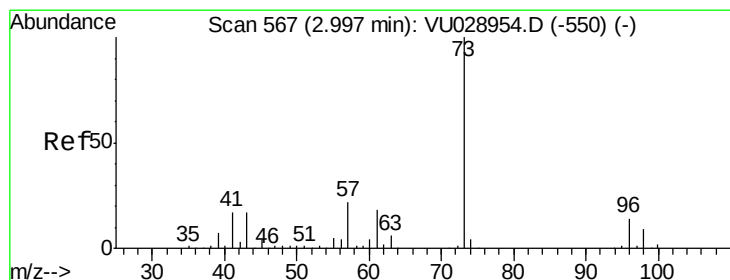
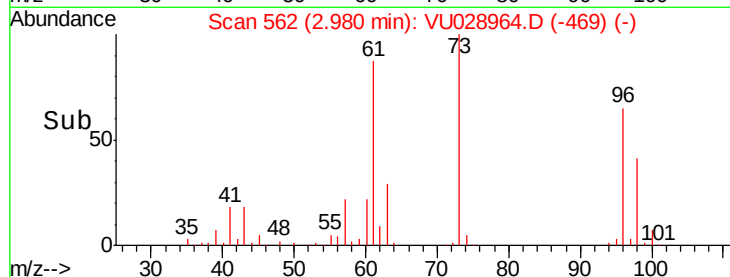
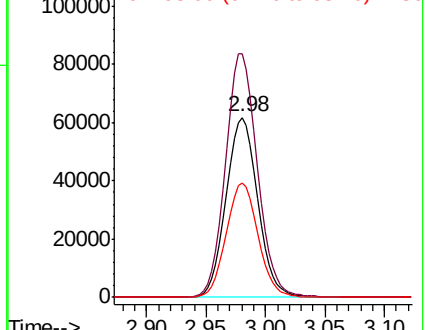
98 63.8 44.1 81.9



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 58.279 ug/L

RT: 3.00 min Scan# 567

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

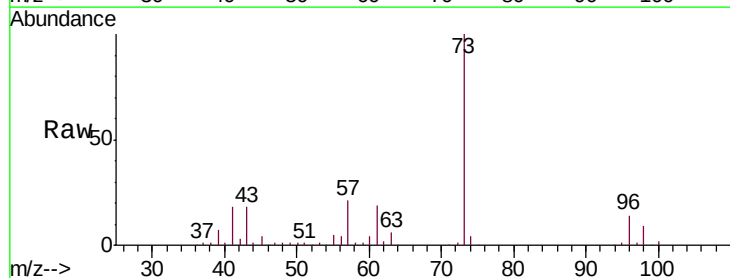
Tgt Ion: 73 Resp: 367301

Ion Ratio Lower Upper

73 100

43 17.8 15.3 22.9

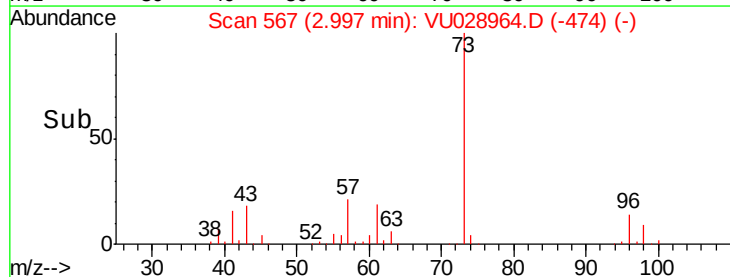
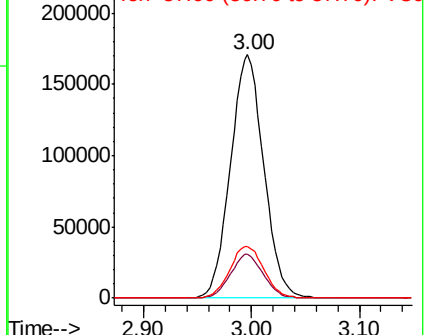
57 21.9 19.0 28.4

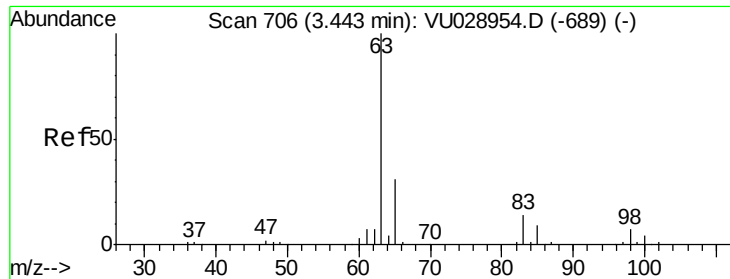


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

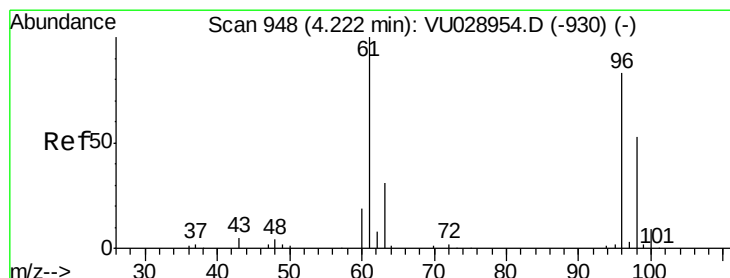
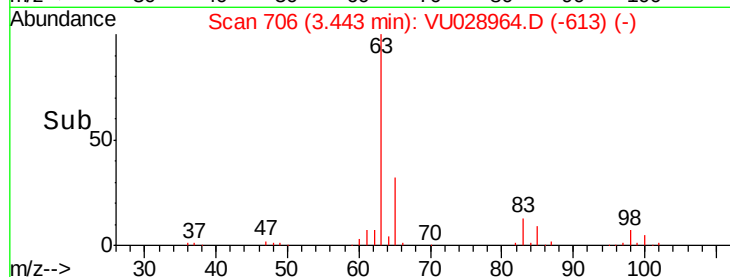
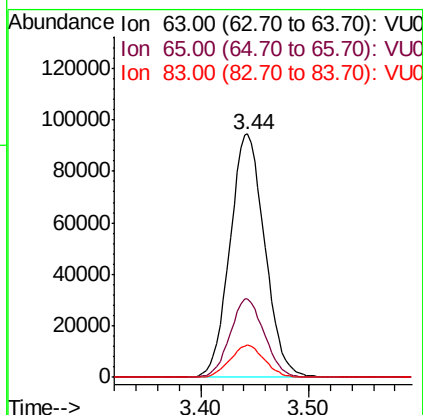
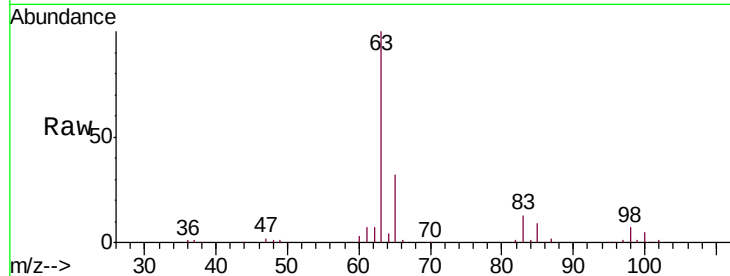




#19
 1,1-Dichloroethane
 Concen: 53.284 ug/L
 RT: 3.44 min Scan# 706
 Delta R.T. 0.00 min
 Lab File: VU028964.D
 Acq: 27 Dec 2018 13:55

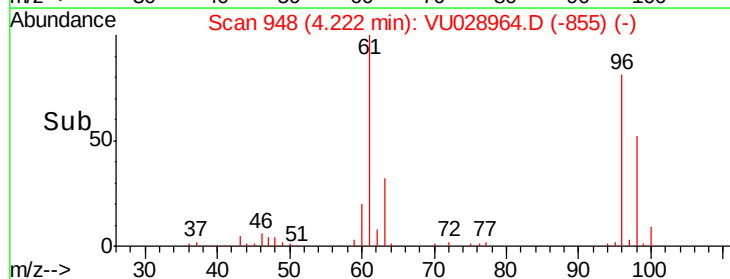
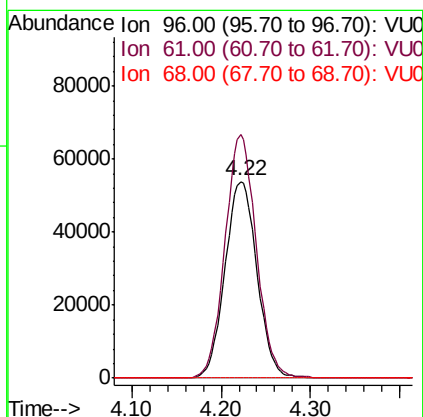
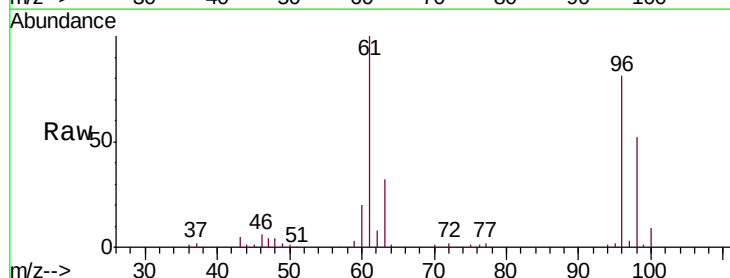
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

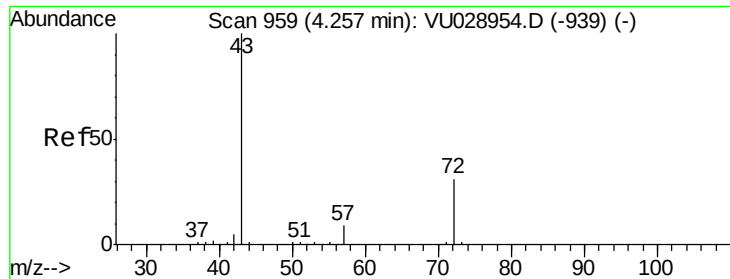
Tgt Ion: 63 Resp: 212293
 Ion Ratio Lower Upper
 63 100
 65 32.1 22.7 42.1
 83 13.3 9.0 16.8



#20
 cis-1,2-Dichloroethene
 Concen: 57.614 ug/L
 RT: 4.22 min Scan# 948
 Delta R.T. 0.00 min
 Lab File: VU028964.D
 Acq: 27 Dec 2018 13:55

Tgt Ion: 96 Resp: 133765
 Ion Ratio Lower Upper
 96 100
 61 123.9 92.1 171.1
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 86.274 ug/L

RT: 4.26 min Scan# 959

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

Instrument :

MSVOA_U

ClientSampleId :

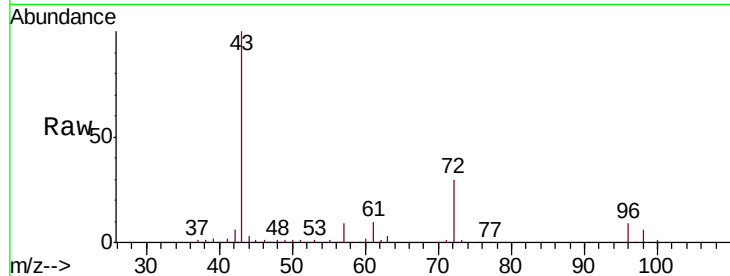
VSTD05049

Tgt Ion: 43 Resp: 177434

Ion Ratio Lower Upper

43 100

72 30.7 13.7 41.1



Abundance Ion 43.00 (42.70 to 43.70): VU028964.D (-939) (-)

Ion 72.00 (71.70 to 72.70): VU028964.D (-939) (-)

4.26

60000

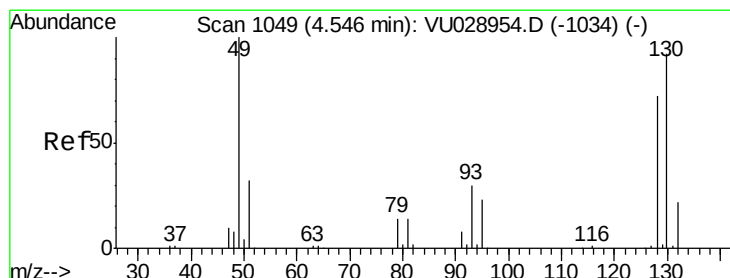
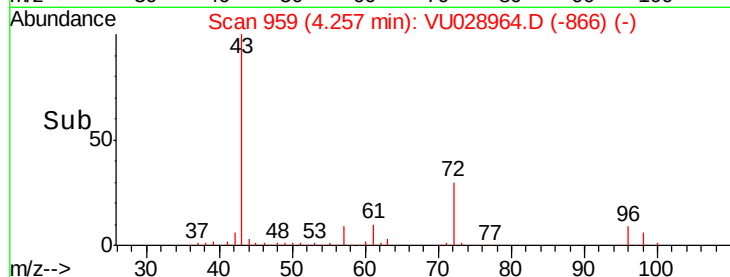
40000

20000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 59.115 ug/L

RT: 4.55 min Scan# 1049

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

Tgt Ion: 128 Resp: 65429

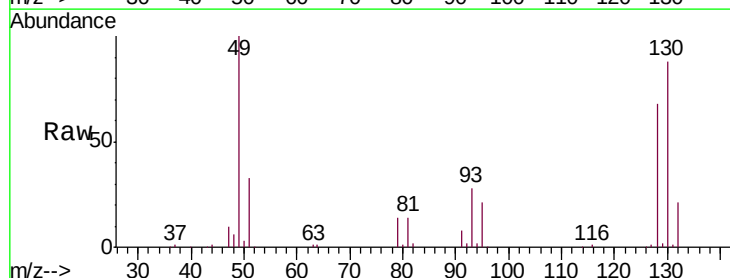
Ion Ratio Lower Upper

128 100

49 146.0 123.0 228.4

130 129.1 86.5 160.7

51 48.1 44.1 66.1



Abundance Ion 128.00 (127.70 to 128.70): VU028964.D (-1034) (-)

Ion 49.00 (48.70 to 49.70): VU028964.D (-1034) (-)

Ion 130.00 (129.70 to 130.70): VU028964.D (-1034) (-)

Ion 51.00 (50.70 to 51.70): VU028964.D (-1034) (-)

4.55

60000

50000

40000

30000

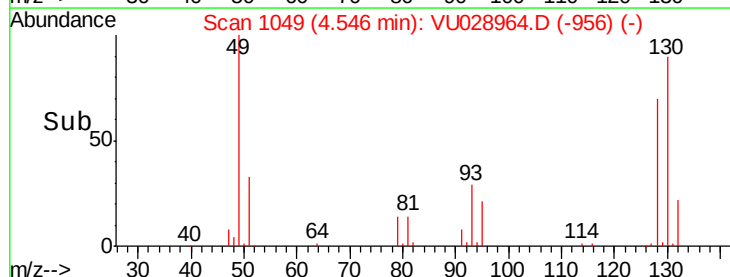
20000

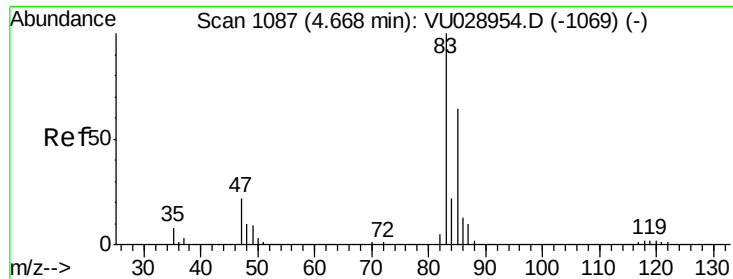
10000

0

4.45 4.50 4.55 4.60 4.65

Time-->

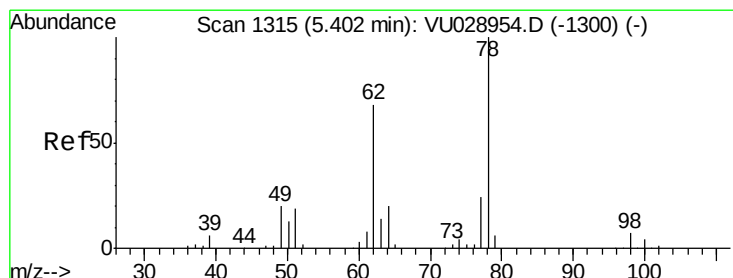
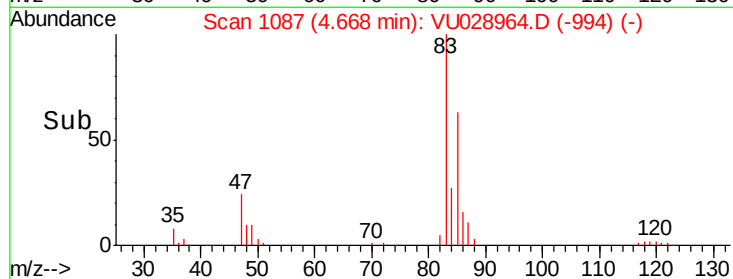
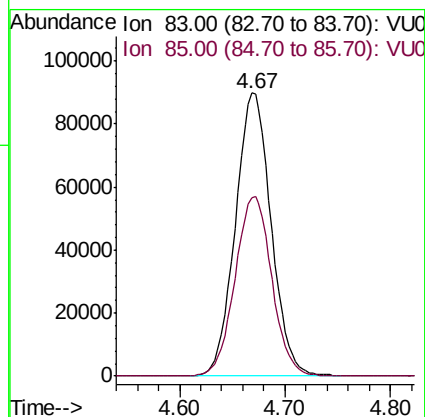
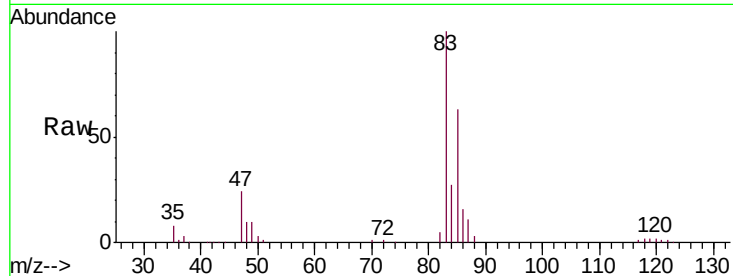




#25
Chloroform
Concen: 55.759 ug/L
RT: 4.67 min Scan# 1087
Delta R.T. 0.00 min
Lab File: VU028964.D
Acq: 27 Dec 2018 13:55

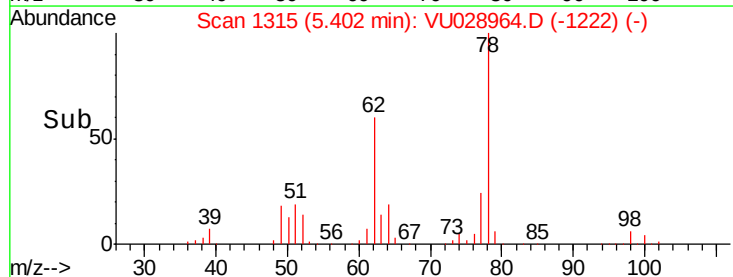
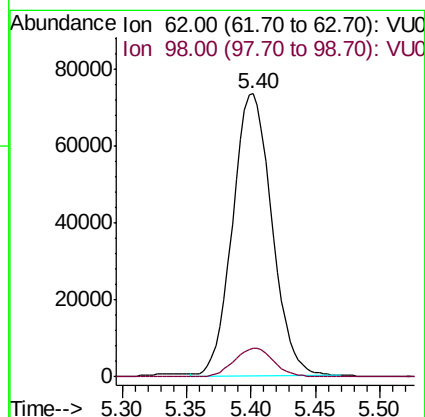
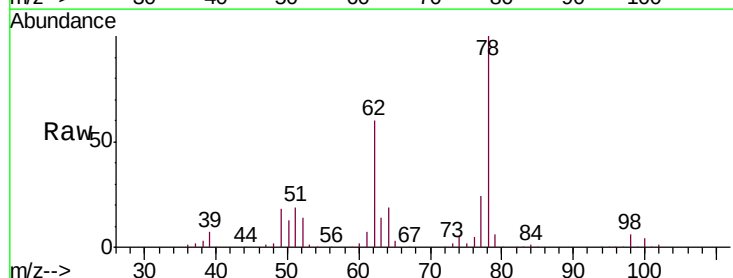
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

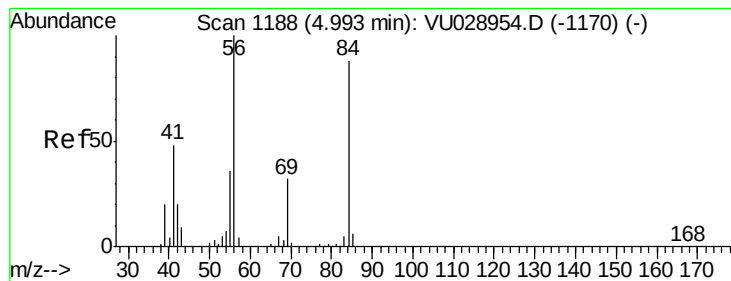
Tgt Ion: 83 Resp: 211445
Ion Ratio Lower Upper
83 100
85 63.1 45.6 84.6



#27
1,2-Dichloroethane
Concen: 55.337 ug/L
RT: 5.40 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VU028964.D
Acq: 27 Dec 2018 13:55

Tgt Ion: 62 Resp: 155952
Ion Ratio Lower Upper
62 100
98 10.0 7.5 11.3





#29

Cyclohexane

Concen: 52.177 ug/L

RT: 4.99 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

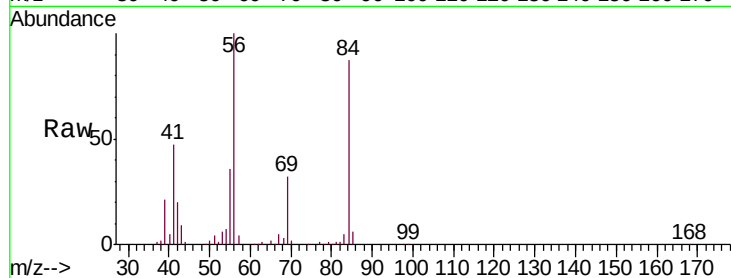
Tgt Ion: 56 Resp: 193041

Ion Ratio Lower Upper

56 100

69 31.6 23.8 35.8

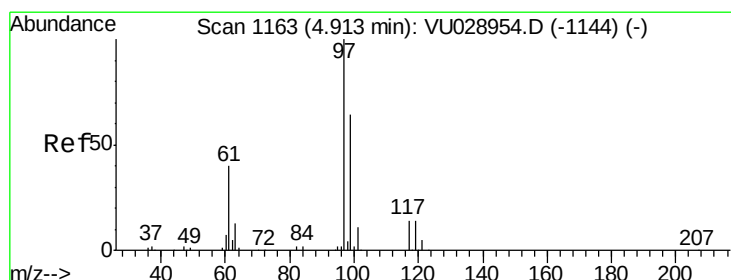
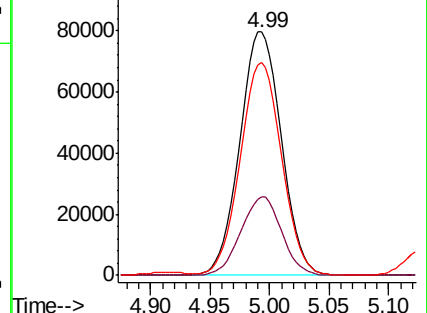
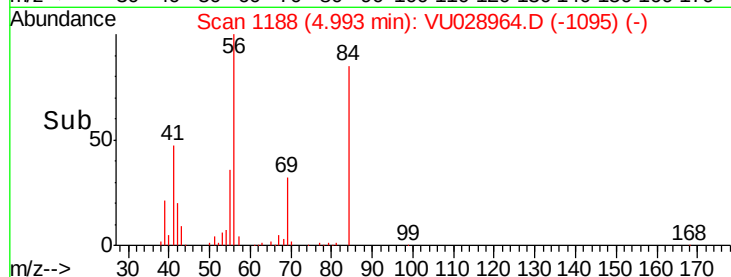
84 86.9 63.8 95.8



Abundance Ion 56.00 (55.70 to 56.70): VU028964.D (-1095) (-)

Ion 69.00 (68.70 to 69.70): VU028964.D (-1095) (-)

Ion 84.00 (83.70 to 84.70): VU028964.D (-1095) (-)



#30

1,1,1-Trichloroethane

Concen: 58.639 ug/L

RT: 4.91 min Scan# 1163

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

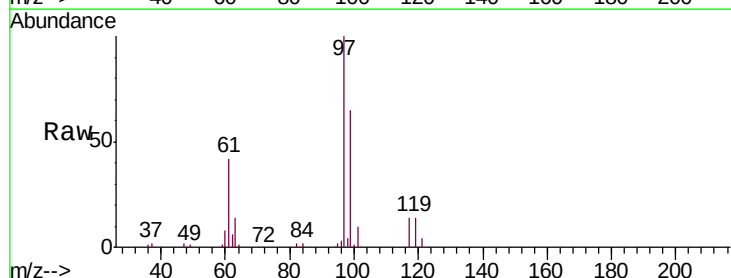
Tgt Ion: 97 Resp: 172525

Ion Ratio Lower Upper

97 100

99 64.6 51.2 76.8

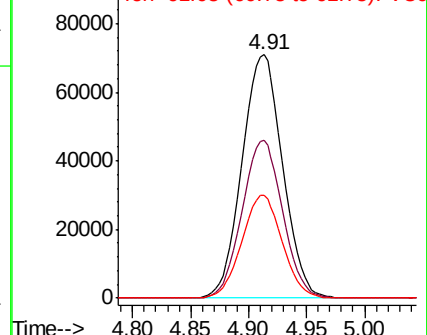
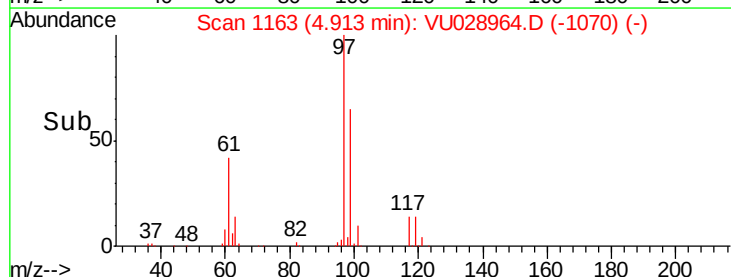
61 42.2 36.1 54.1

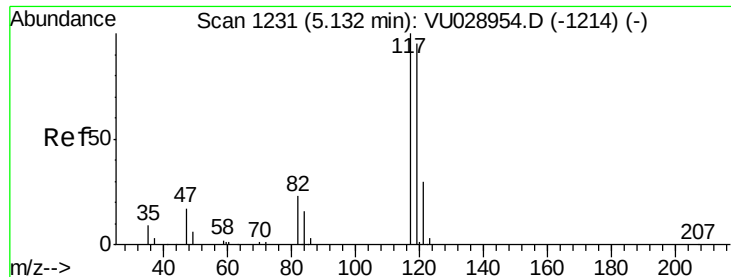


Abundance Ion 97.00 (96.70 to 97.70): VU028964.D (-1070) (-)

Ion 99.00 (98.70 to 99.70): VU028964.D (-1070) (-)

Ion 61.05 (60.75 to 61.75): VU028964.D (-1070) (-)

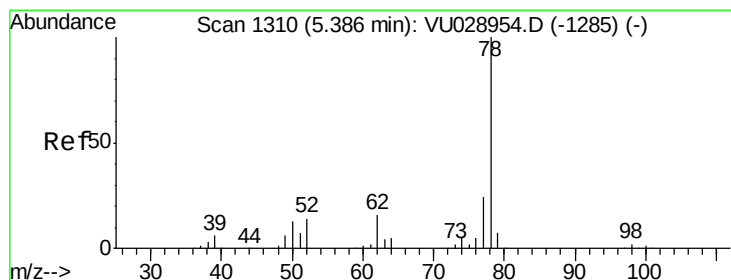
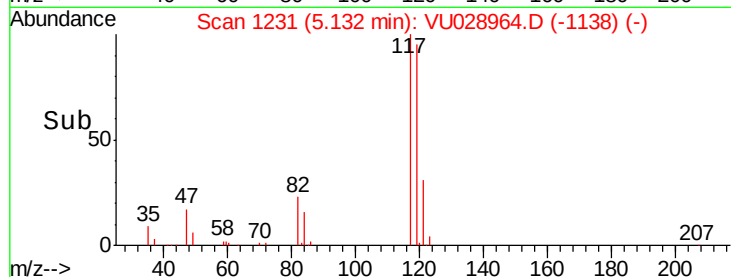
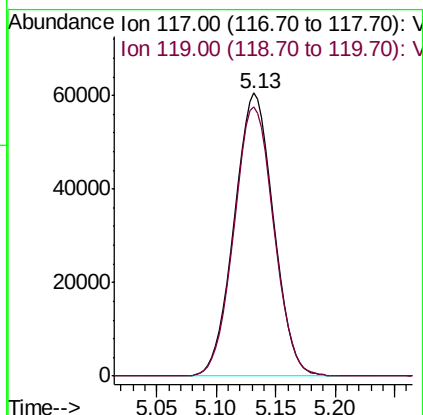
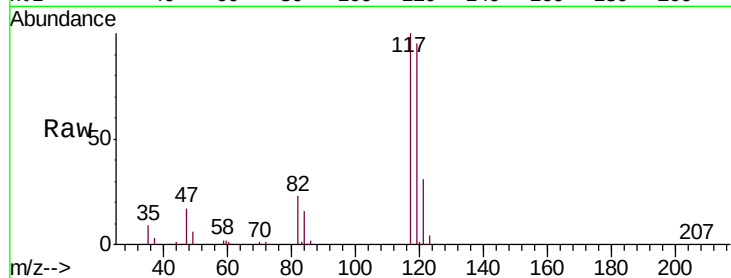




#31
Carbon tetrachloride
Concen: 58.398 ug/L
RT: 5.13 min Scan# 1231
Delta R.T. 0.00 min
Lab File: VU028964.D
Acq: 27 Dec 2018 13:55

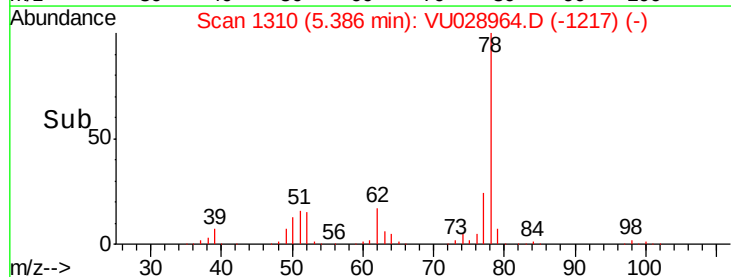
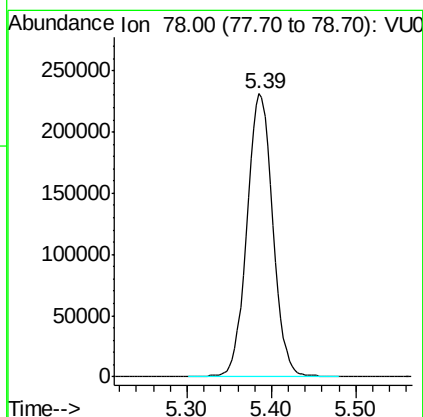
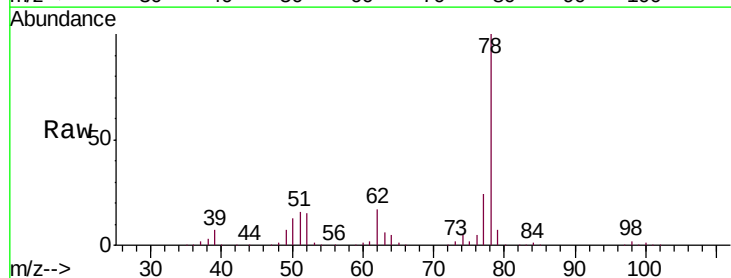
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

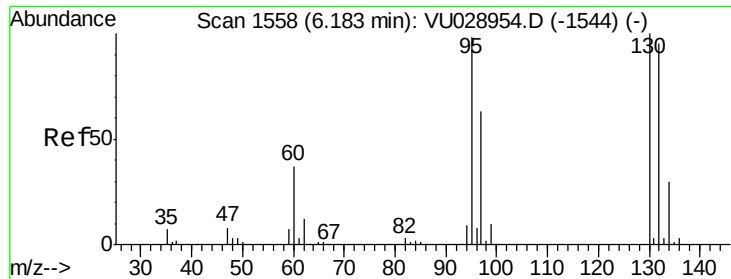
Tgt Ion:117 Resp: 138553
Ion Ratio Lower Upper
117 100
119 96.5 77.0 115.6



#33
Benzene
Concen: 55.799 ug/L
RT: 5.39 min Scan# 1310
Delta R.T. 0.00 min
Lab File: VU028964.D
Acq: 27 Dec 2018 13:55

Tgt Ion: 78 Resp: 493805





#34

Trichloroethene

Concen: 57.165 ug/L

RT: 6.18 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

Tgt Ion: 95 Resp: 122136

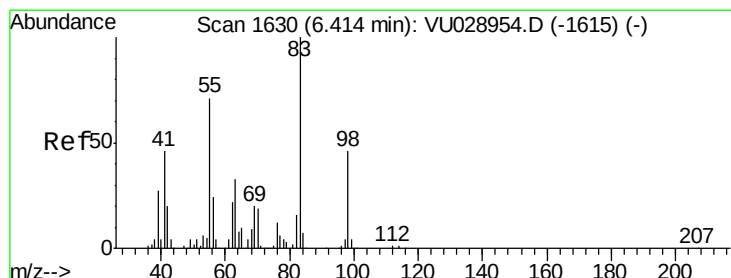
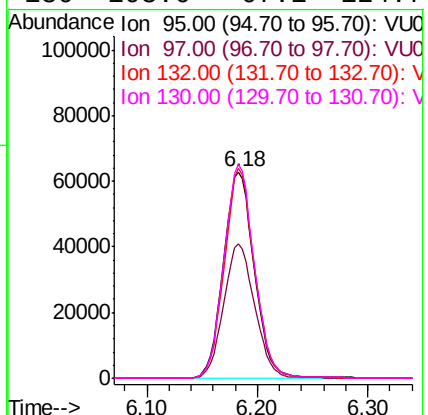
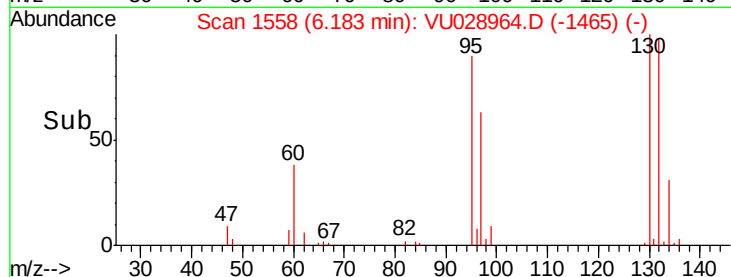
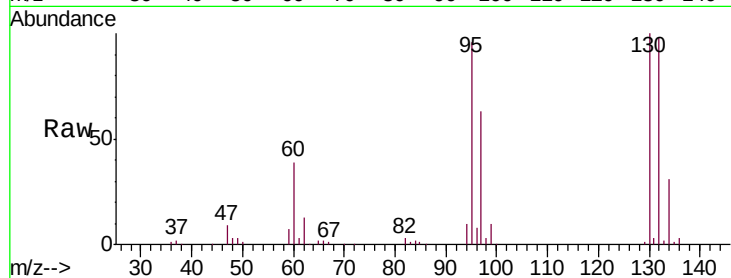
Ion Ratio Lower Upper

95 100

97 65.1 43.3 80.3

132 101.8 64.2 119.2

130 103.6 67.1 124.7



#35

Methylcyclohexane

Concen: 56.009 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

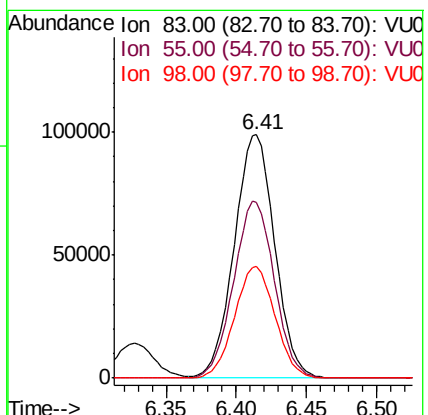
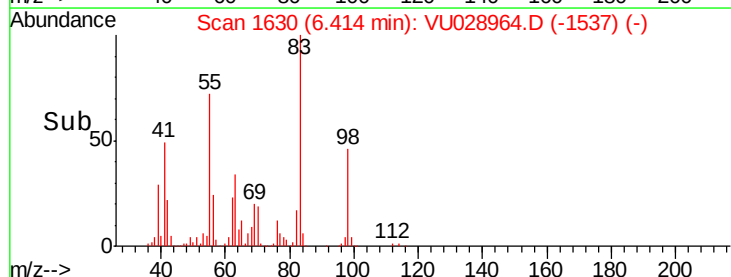
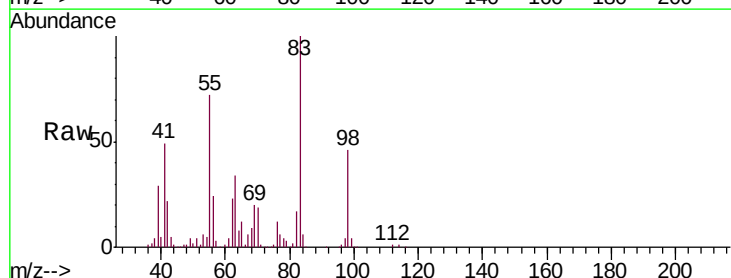
Tgt Ion: 83 Resp: 199305

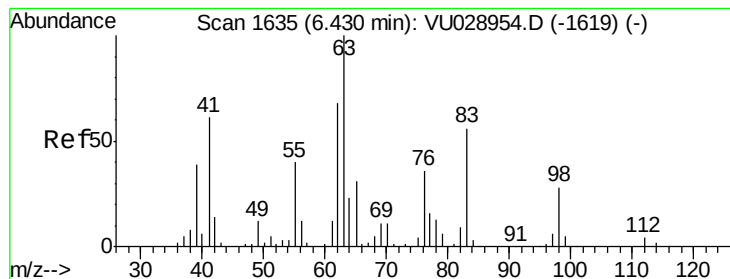
Ion Ratio Lower Upper

83 100

55 73.0 63.7 95.5

98 45.9 35.6 53.4





#37

1,2-Dichloropropane

Concen: 53.294 ug/L

RT: 6.43 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

Instrument :

MSVOA_U

ClientSampleId :

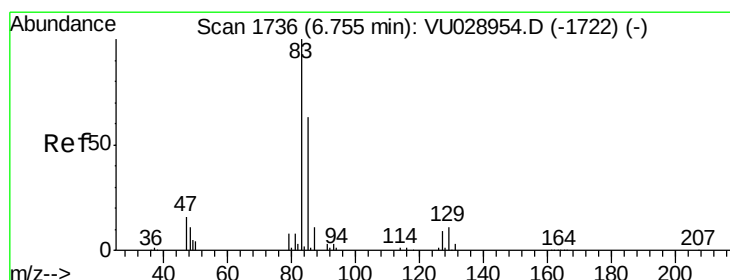
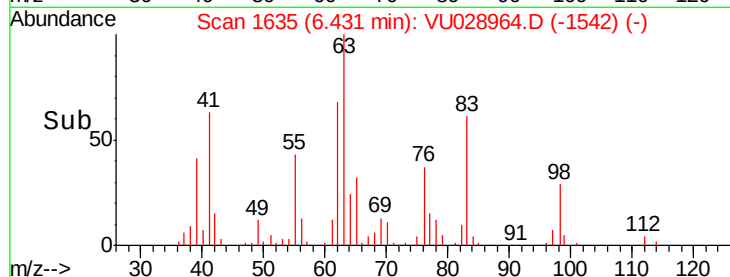
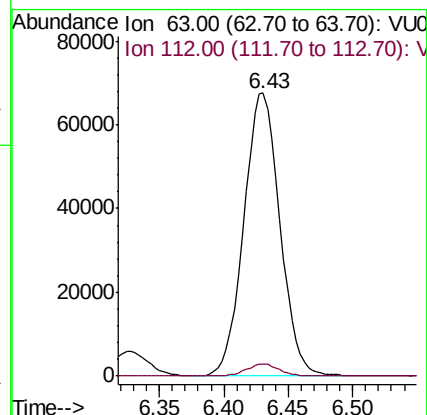
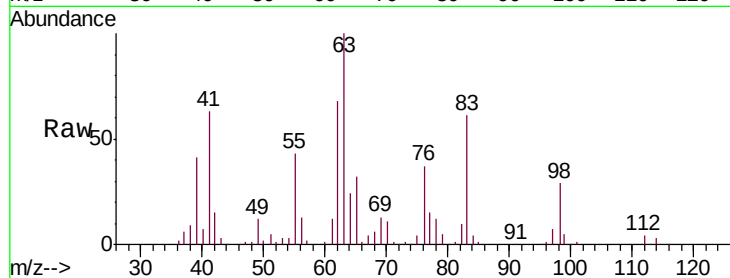
VSTD05049

Tgt Ion: 63 Resp: 131839

Ion Ratio Lower Upper

63 100

112 4.0 2.7 4.1



#38

Bromodichloromethane

Concen: 56.493 ug/L

RT: 6.75 min Scan# 1735

Delta R.T. -0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

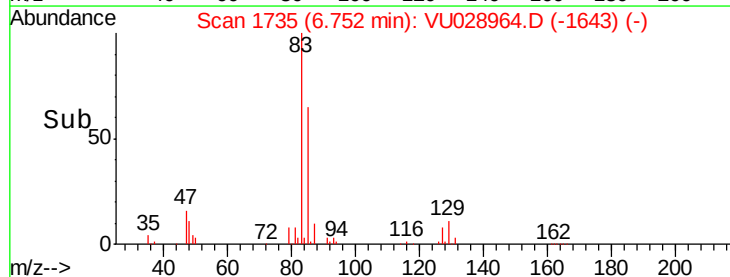
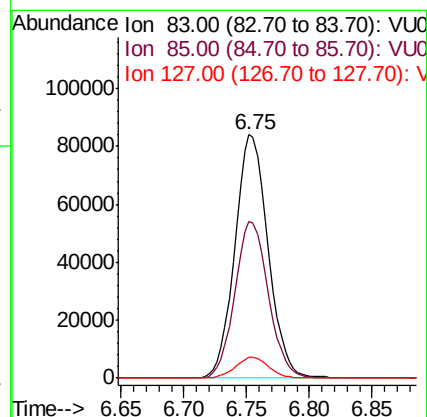
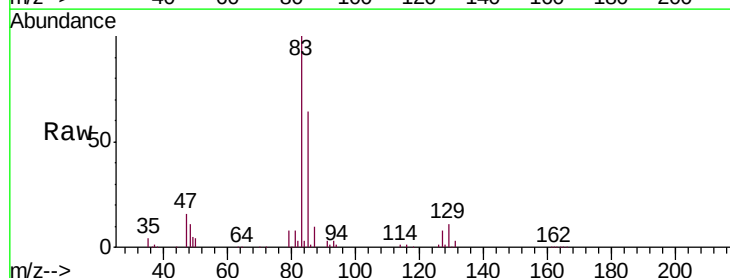
Tgt Ion: 83 Resp: 154764

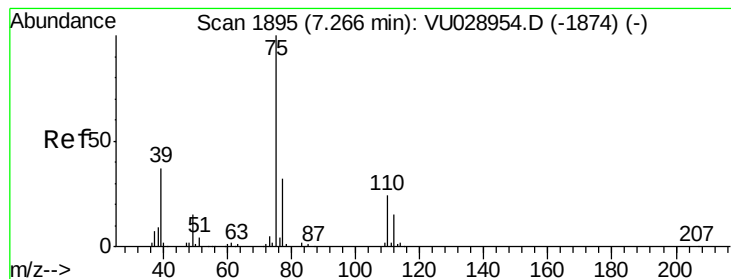
Ion Ratio Lower Upper

83 100

85 64.2 45.4 84.2

127 8.3 6.2 9.2



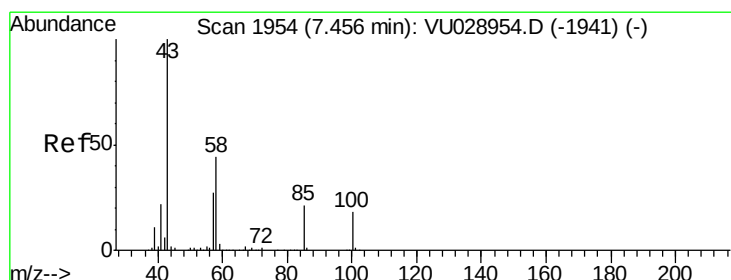
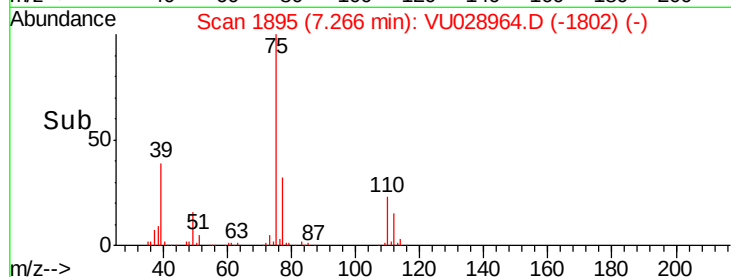
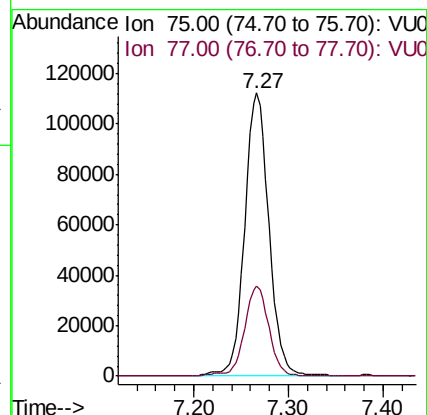
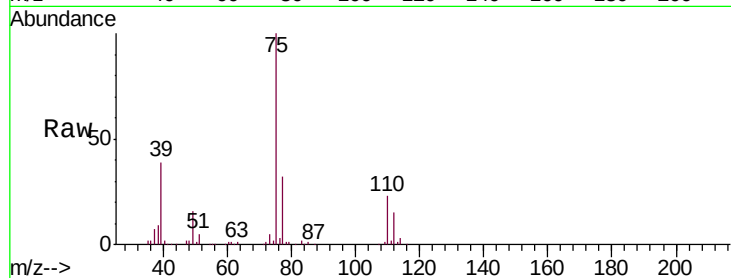


#39

cis-1,3-Dichloropropene
Concen: 56.782 ug/L
RT: 7.27 min Scan# 1895
Delta R.T. 0.00 min
Lab File: VU028964.D
Acq: 27 Dec 2018 13:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

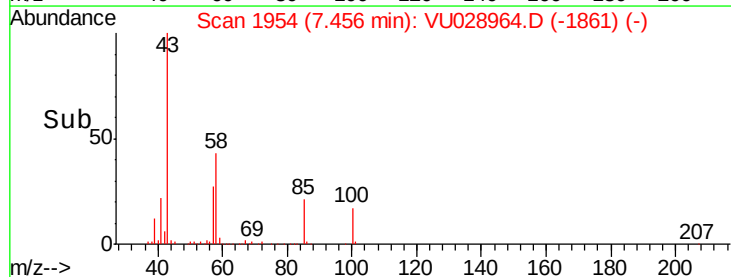
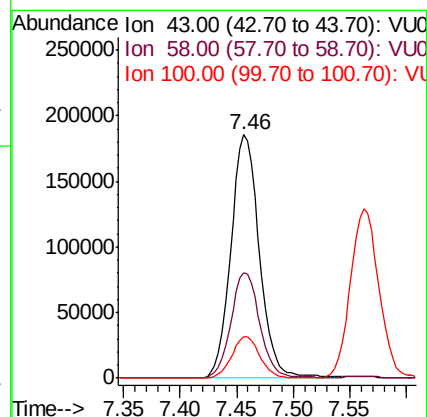
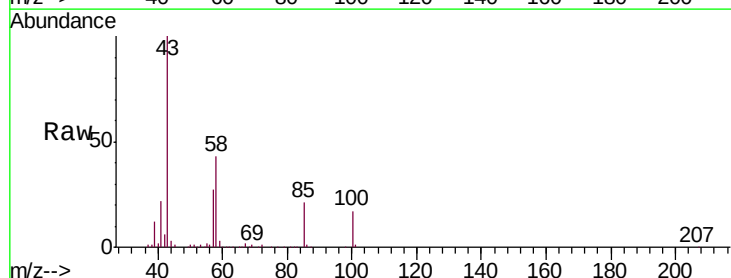
Tgt Ion: 75 Resp: 200260
Ion Ratio Lower Upper
75 100
77 31.8 21.8 40.6

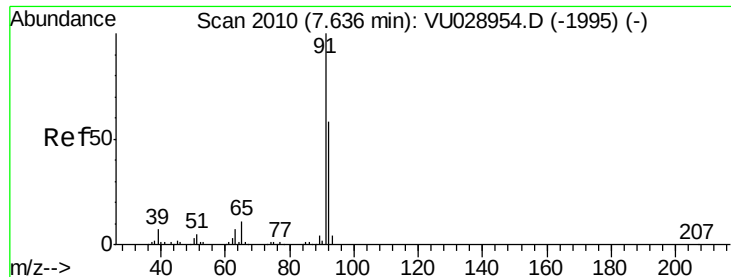


#40

4-Methyl-2-pentanone
Concen: 97.951 ug/L
RT: 7.46 min Scan# 1954
Delta R.T. 0.00 min
Lab File: VU028964.D
Acq: 27 Dec 2018 13:55

Tgt Ion: 43 Resp: 325694
Ion Ratio Lower Upper
43 100
58 43.9 33.1 49.7
100 16.9 11.5 17.3





#42

Toluene

Concen: 58.861 ug/L

RT: 7.63 min Scan# 2009

Delta R.T. -0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

Instrument :

MSVOA_U

ClientSampleId :

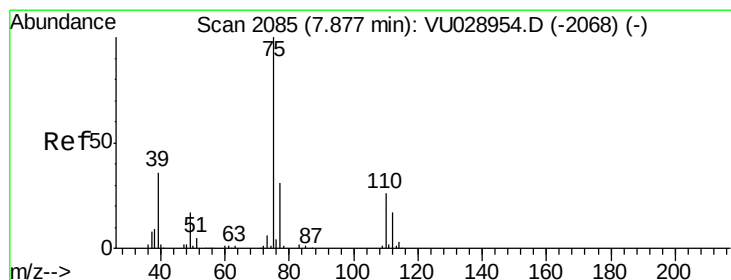
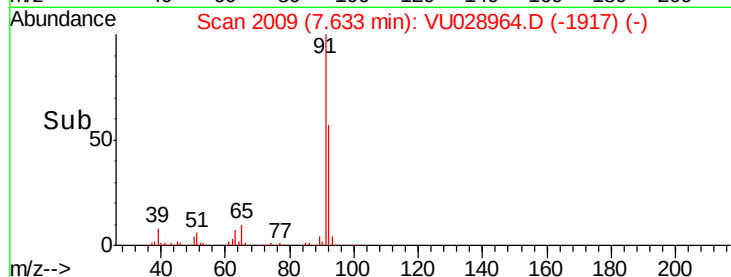
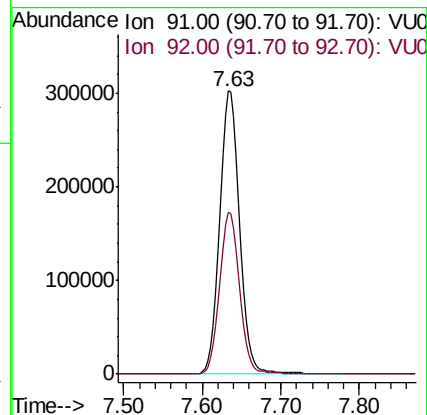
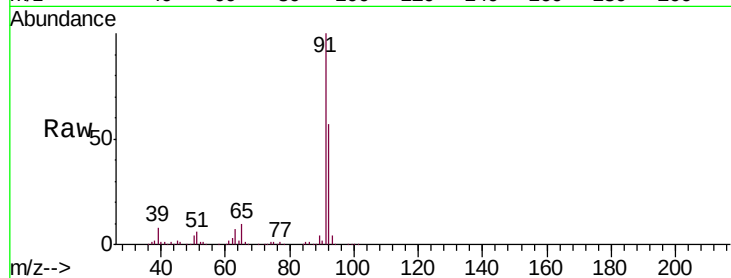
VSTD05049

Tgt Ion: 91 Resp: 528037

Ion Ratio Lower Upper

91 100

92 57.0 39.9 74.1



#44

trans-1,3-Dichloropropene

Concen: 57.292 ug/L

RT: 7.88 min Scan# 2085

Delta R.T. 0.00 min

Lab File: VU028964.D

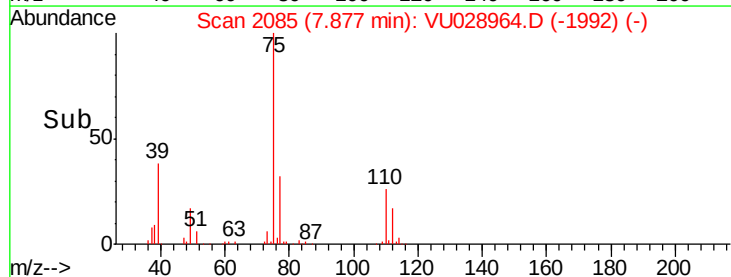
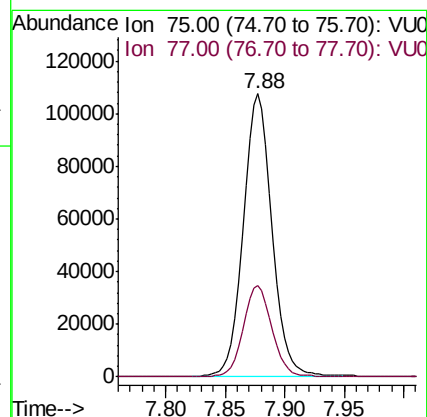
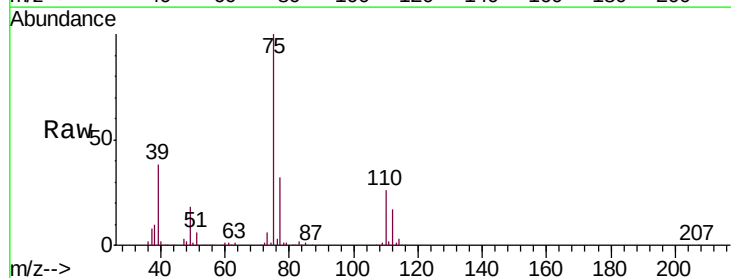
Acq: 27 Dec 2018 13:55

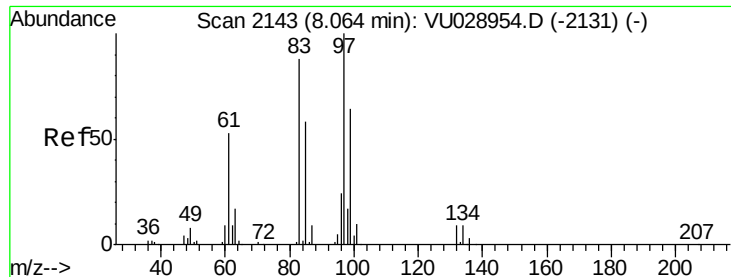
Tgt Ion: 75 Resp: 180114

Ion Ratio Lower Upper

75 100

77 32.2 21.8 40.6

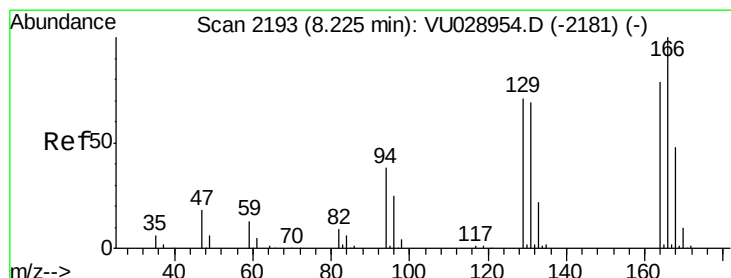
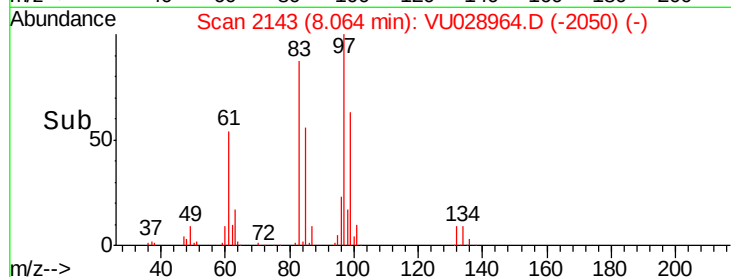
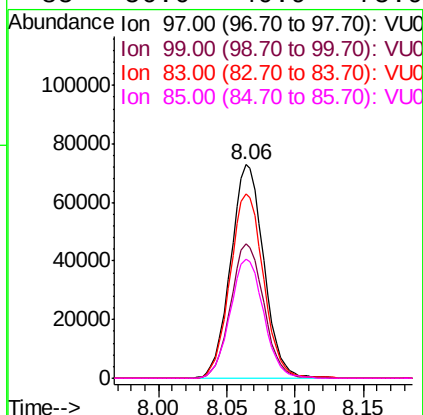
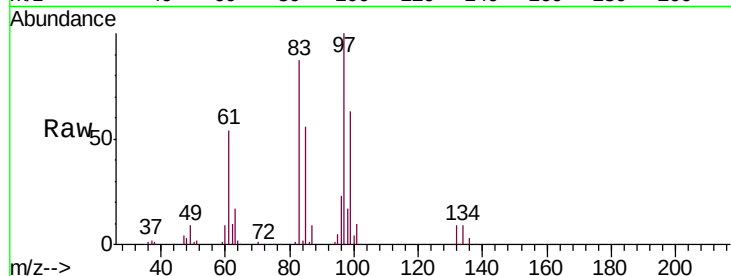




#45
 1,1,2-Trichloroethane
 Concen: 58.220 ug/L
 RT: 8.06 min Scan# 2143
 Delta R.T. 0.00 min
 Lab File: VU028964.D
 Acq: 27 Dec 2018 13:55

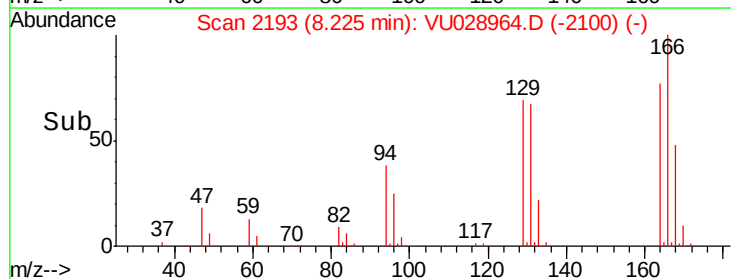
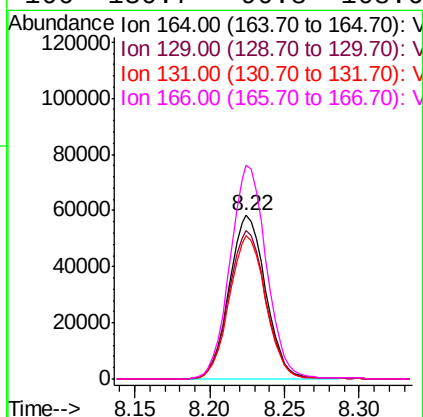
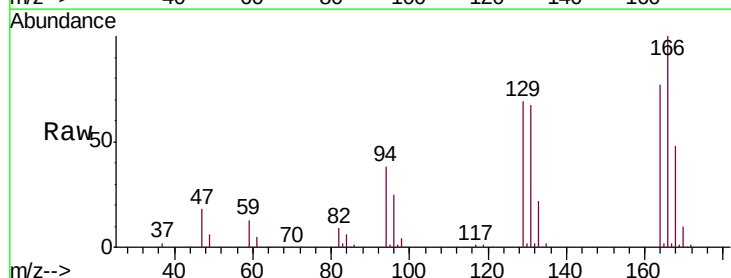
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05049

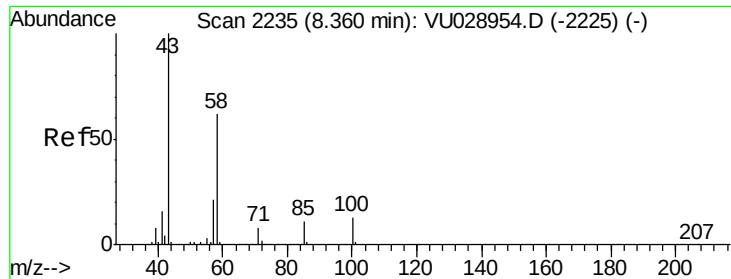
Tgt Ion:	97	Resp:	123143
Ion	Ratio	Lower	Upper
97	100		
99	63.0	44.2	82.2
83	86.6	64.5	119.9
85	56.0	40.9	75.9



#46
 Tetrachloroethene
 Concen: 60.480 ug/L
 RT: 8.22 min Scan# 2193
 Delta R.T. 0.00 min
 Lab File: VU028964.D
 Acq: 27 Dec 2018 13:55

Tgt Ion:	164	Resp:	99520
Ion	Ratio	Lower	Upper
164	100		
129	90.8	66.8	124.0
131	87.5	64.2	119.2
166	130.7	90.8	168.6

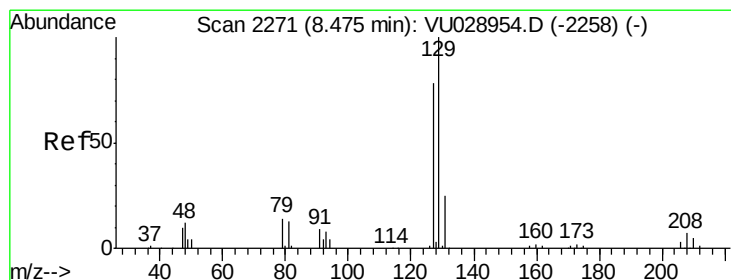
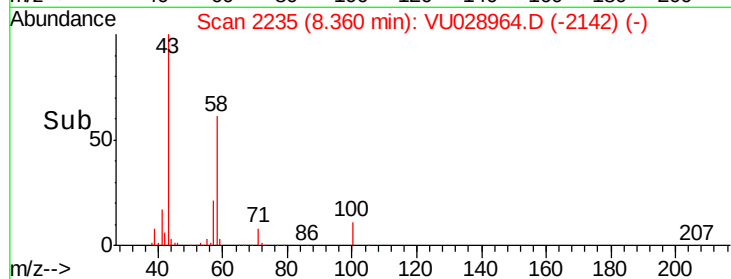
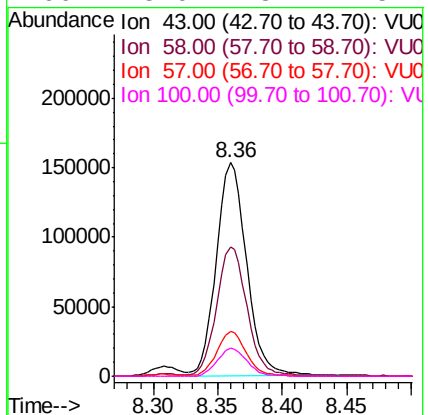
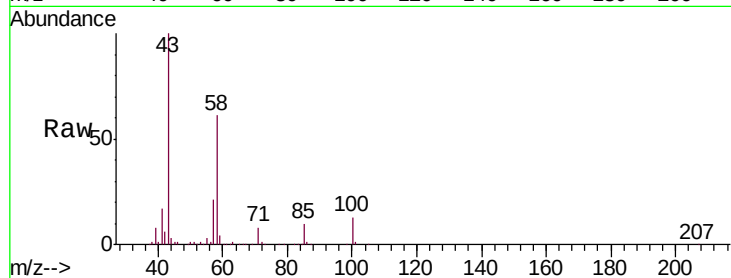




#48
2-Hexanone
Concen: 91.703 ug/L
RT: 8.36 min Scan# 2235
Delta R.T. 0.00 min
Lab File: VU028964.D
Acq: 27 Dec 2018 13:55

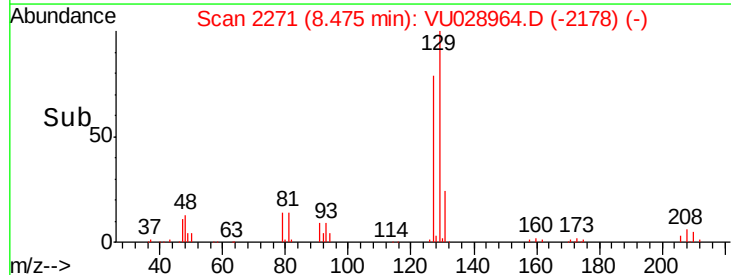
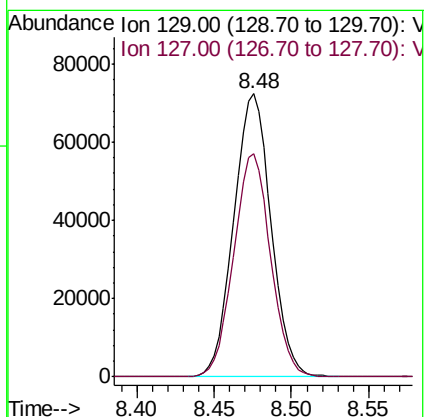
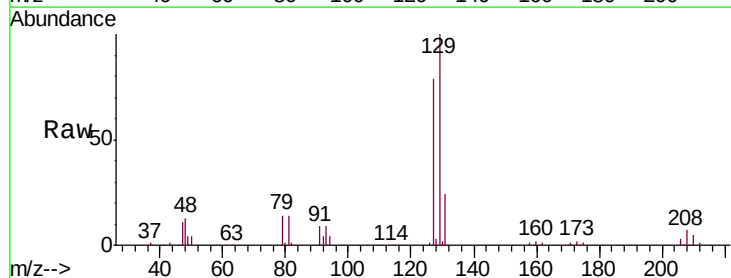
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

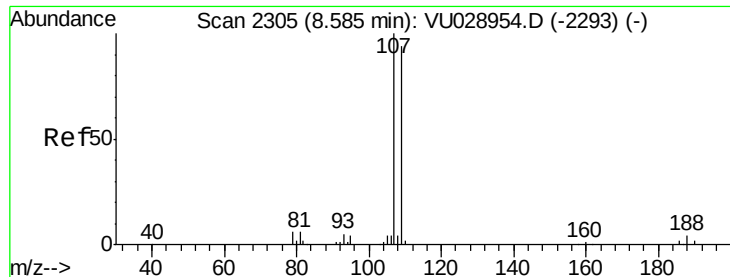
Tgt Ion:	43	Resp:	250264
Ion	Ratio	Lower	Upper
43	100		
58	61.1	45.9	68.9
57	20.1	15.0	22.4
100	13.0	8.7	13.1



#49
Dibromochloromethane
Concen: 57.560 ug/L
RT: 8.48 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VU028964.D
Acq: 27 Dec 2018 13:55

Tgt Ion:	129	Resp:	121268
Ion	Ratio	Lower	Upper
129	100		
127	78.7	54.1	100.5

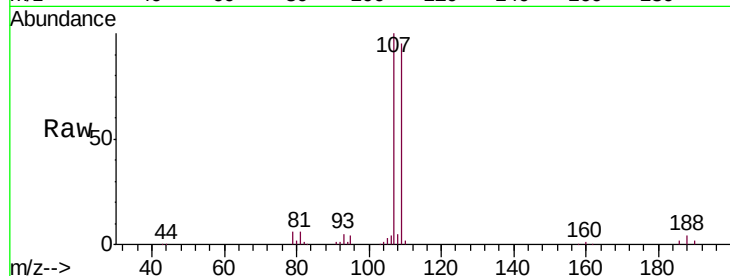




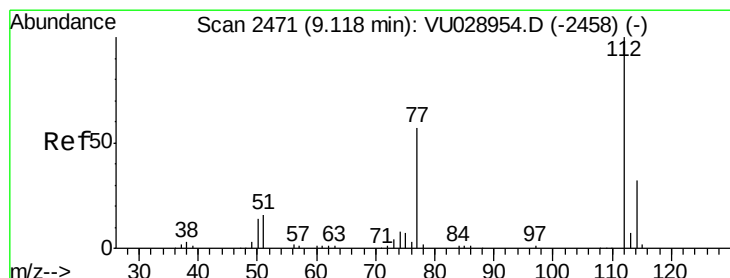
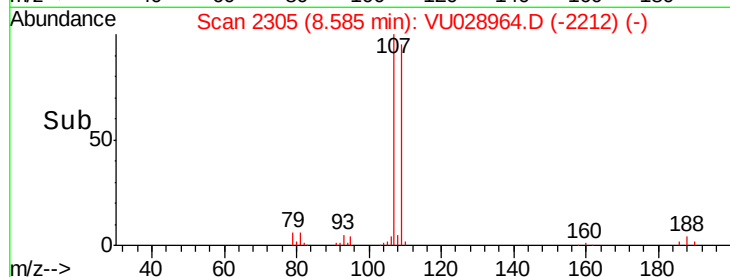
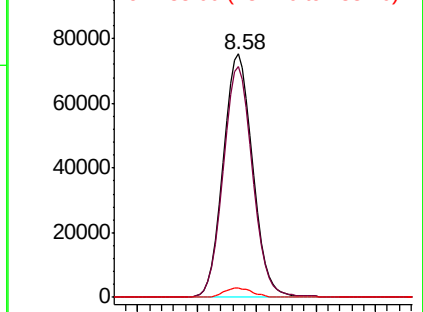
#50
1,2-Dibromoethane
Concen: 58.826 ug/L
RT: 8.58 min Scan# 2305
Delta R.T. 0.00 min
Lab File: VU028964.D
Acq: 27 Dec 2018 13:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.9	66.0	122.6
188	3.8	3.1	4.7

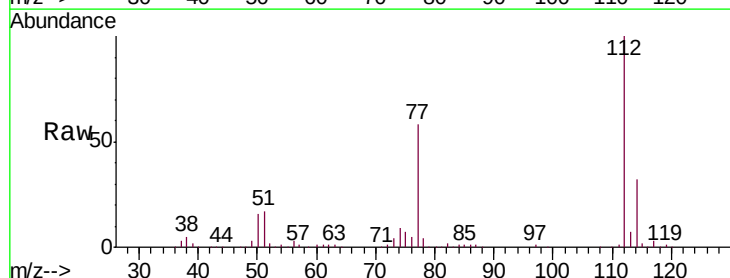


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

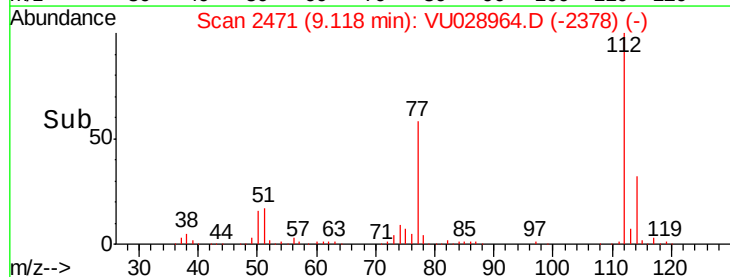
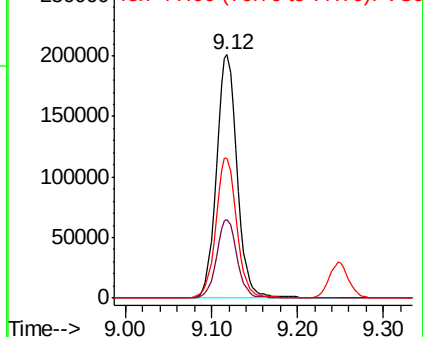


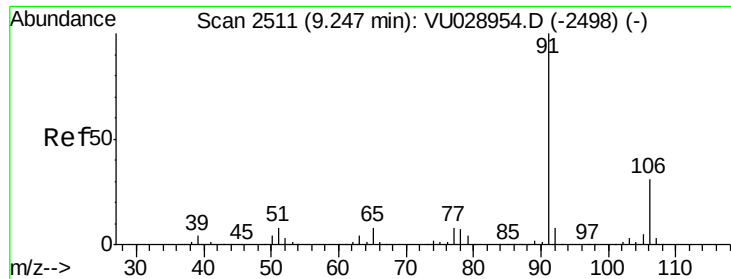
#51
Chlorobenzene
Concen: 59.302 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU028964.D
Acq: 27 Dec 2018 13:55

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.5	22.2	41.2
77	57.5	47.8	71.8



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): VU0





#52

Ethylbenzene

Concen: 58.780 ug/L

RT: 9.25 min Scan# 2511

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

Instrument :

MSVOA_U

ClientSampleId :

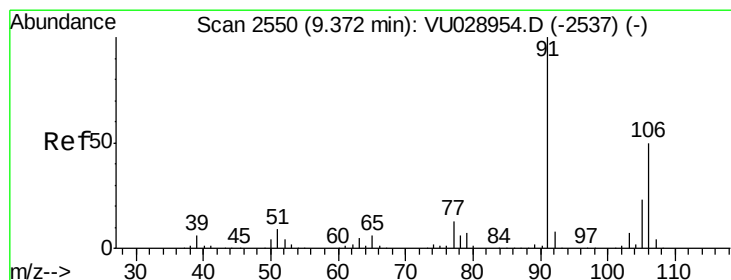
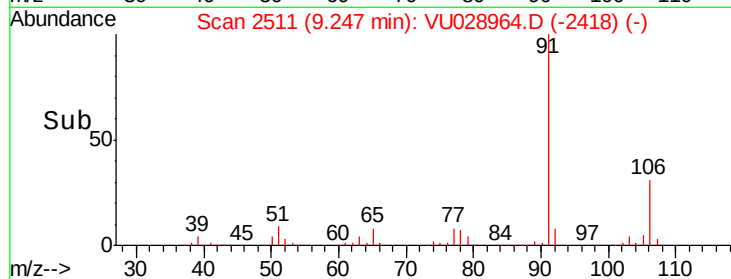
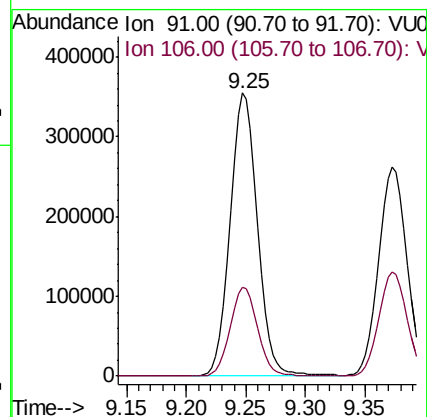
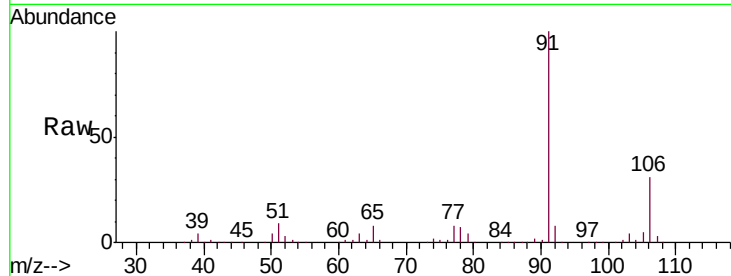
VSTD05049

Tgt Ion: 91 Resp: 566601

Ion Ratio Lower Upper

91 100

106 31.2 20.9 38.9



#53

m,p-Xylene

Concen: 61.267 ug/L

RT: 9.37 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VU028964.D

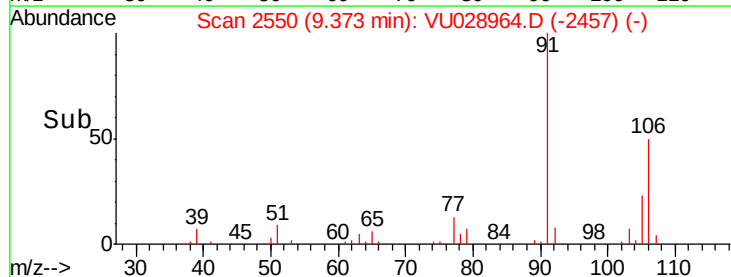
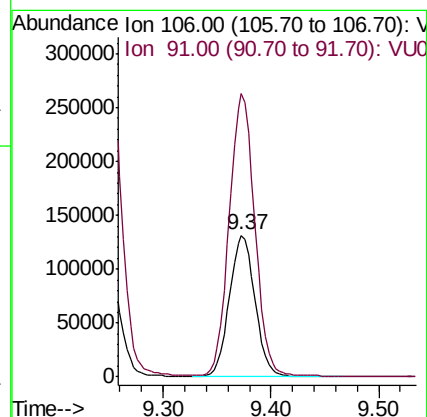
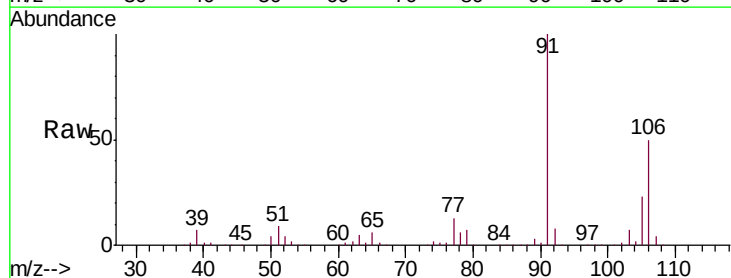
Acq: 27 Dec 2018 13:55

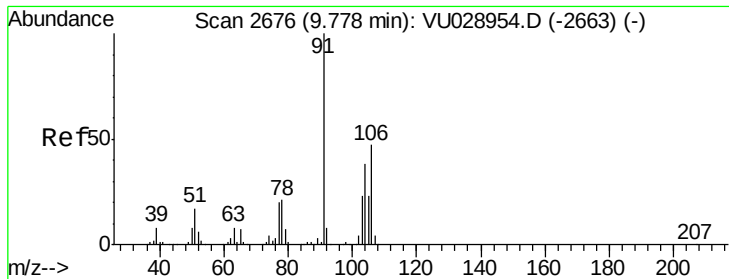
Tgt Ion: 106 Resp: 218388

Ion Ratio Lower Upper

106 100

91 200.1 144.1 267.5





#54

o-xylene

Concen: 60.140 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

Instrument :

MSVOA_U

ClientSampleId :

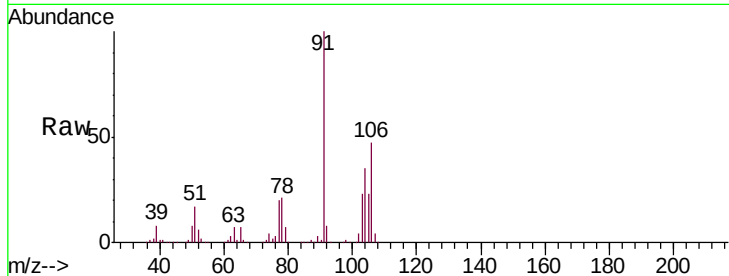
VSTD05049

Tgt Ion:106 Resp: 214854

Ion Ratio Lower Upper

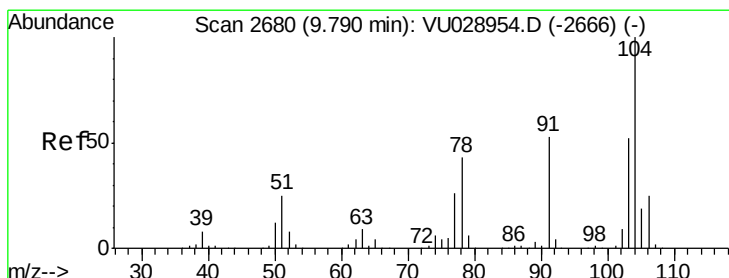
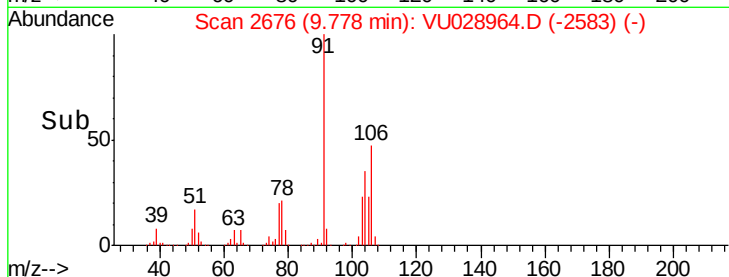
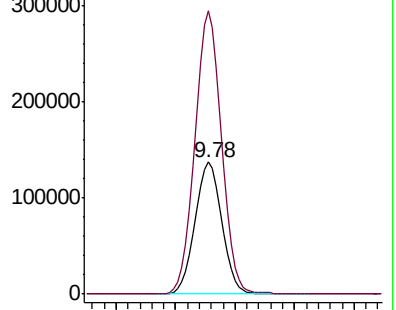
106 100

91 214.2 150.4 279.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 60.732 ug/L

RT: 9.79 min Scan# 2680

Delta R.T. 0.00 min

Lab File: VU028964.D

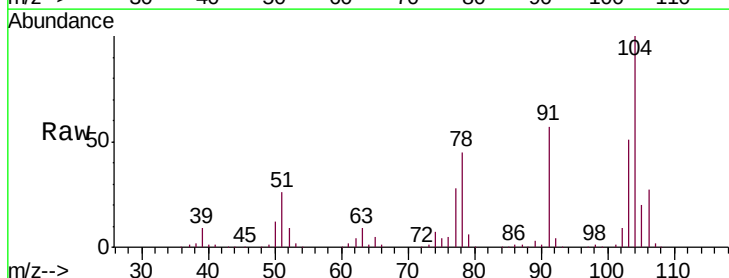
Acq: 27 Dec 2018 13:55

Tgt Ion:104 Resp: 367464

Ion Ratio Lower Upper

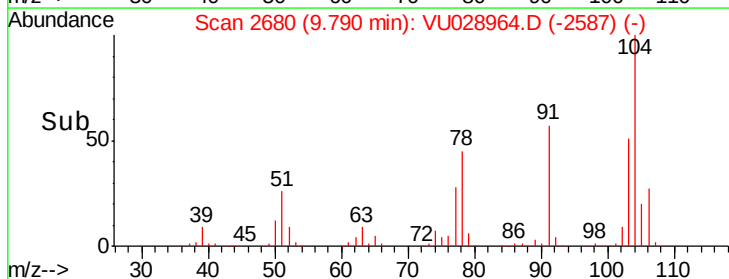
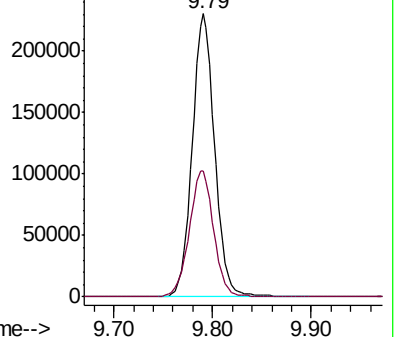
104 100

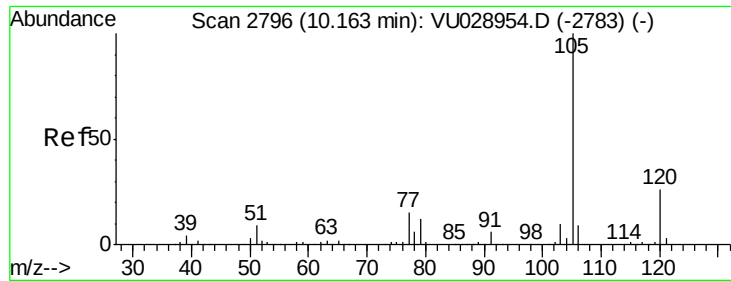
78 44.6 31.3 58.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 60.872 ug/L

RT: 10.16 min Scan# 2796

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

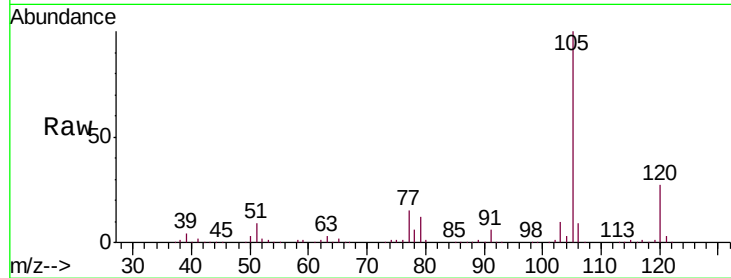
Tgt Ion: 105 Resp: 551667

Ion Ratio Lower Upper

105 100

120 26.8 21.4 32.2

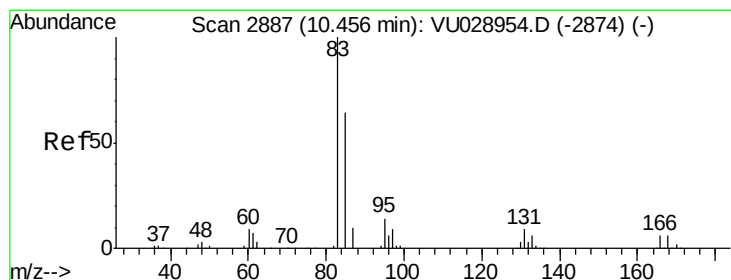
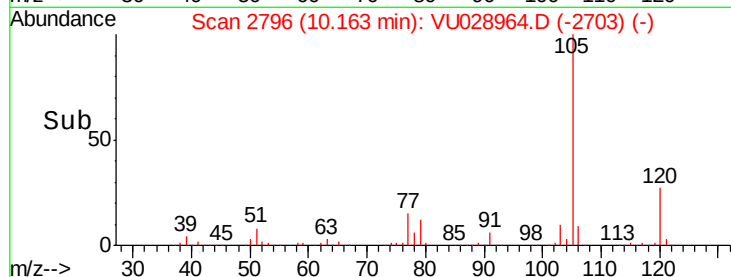
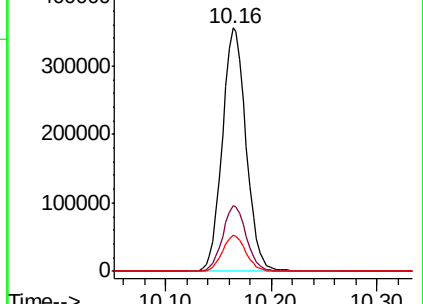
77 14.7 12.3 18.5



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: 53.691 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

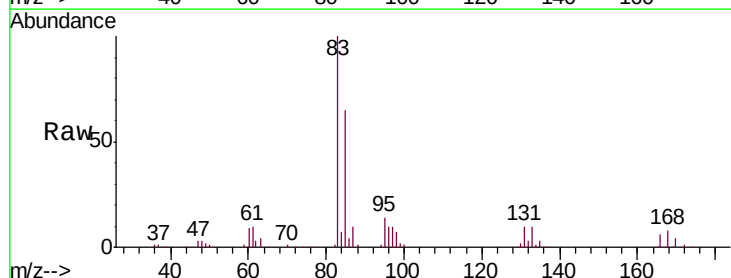
Tgt Ion: 83 Resp: 206309

Ion Ratio Lower Upper

83 100

85 64.7 45.3 84.1

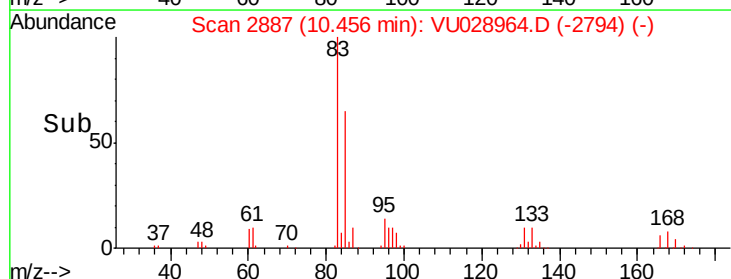
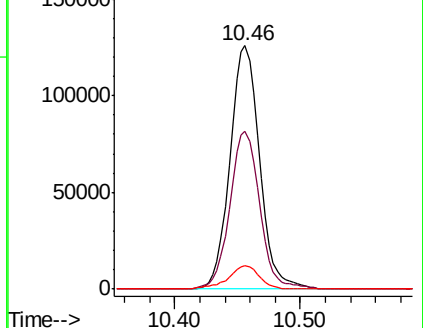
131 9.7 6.7 10.1

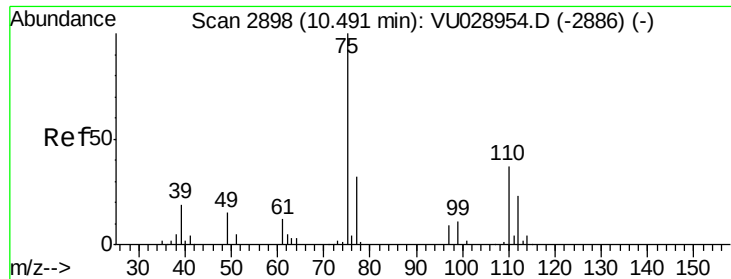


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

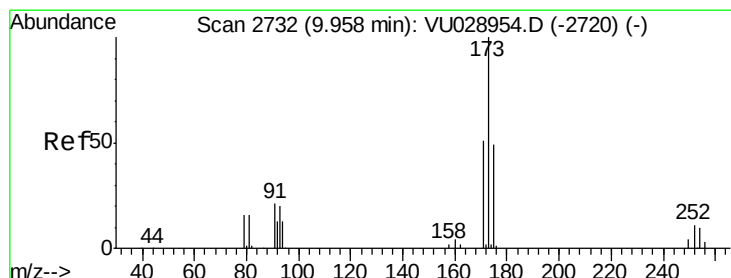
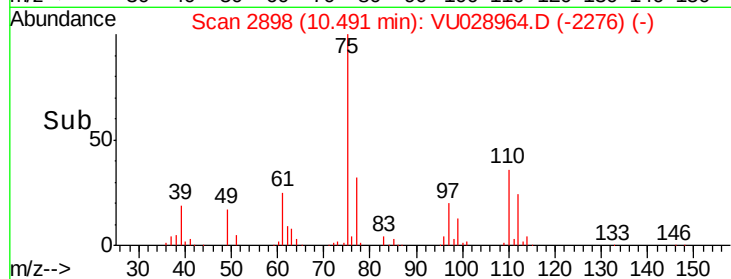
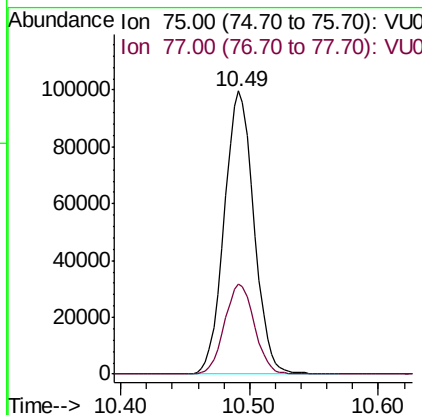
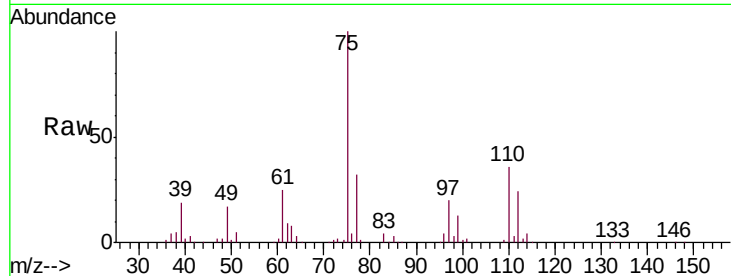




#59
 1,2,3-Trichloropropane
 Concen: 53.768 ug/L
 RT: 10.49 min Scan# 2898
 Delta R.T. 0.00 min
 Lab File: VU028964.D
 Acq: 27 Dec 2018 13:55

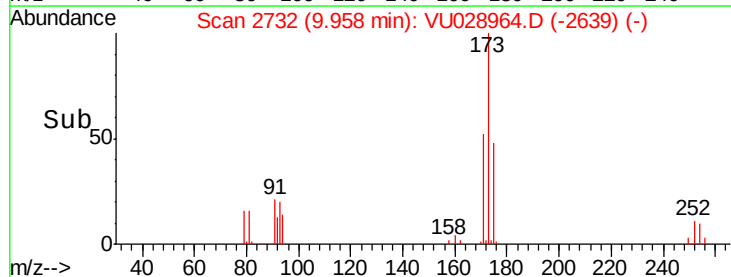
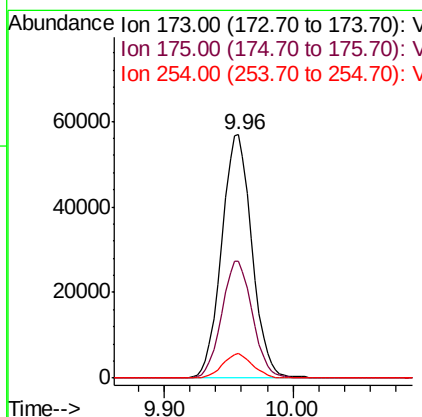
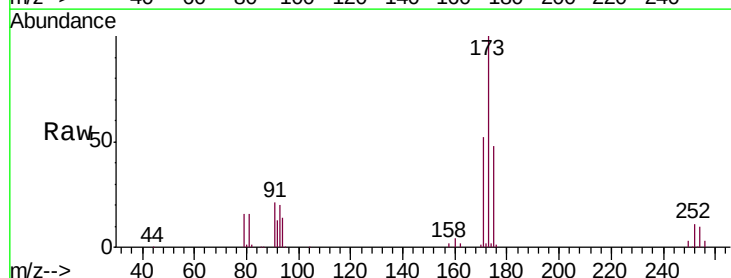
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

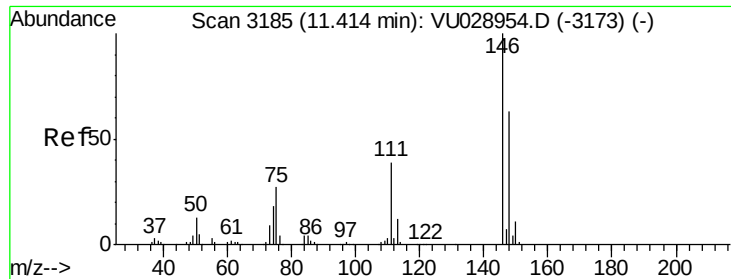
Tgt Ion: 75 Resp: 158730
 Ion Ratio Lower Upper
 75 100
 77 32.3 25.5 38.3



#61
 Bromoform
 Concen: 54.883 ug/L
 RT: 9.96 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VU028964.D
 Acq: 27 Dec 2018 13:55

Tgt Ion: 173 Resp: 92788
 Ion Ratio Lower Upper
 173 100
 175 48.3 38.9 58.3
 254 9.8 7.8 11.8





#62

1,3-Dichlorobenzene

Concen: 59.719 ug/L

RT: 11.41 min Scan# 3185

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

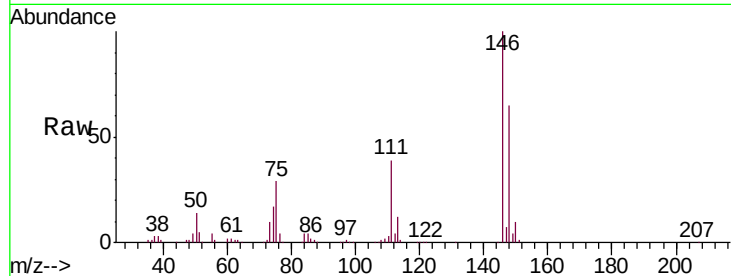
Tgt Ion:146 Resp: 258728

Ion Ratio Lower Upper

146 100

111 38.9 27.4 50.8

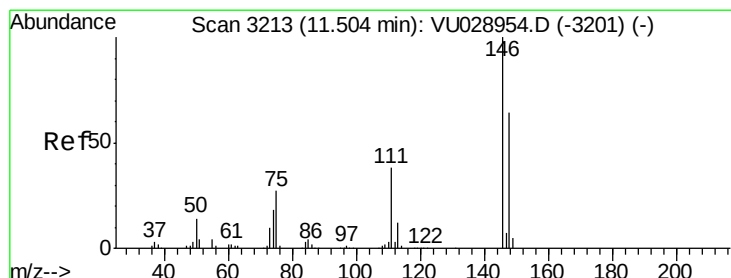
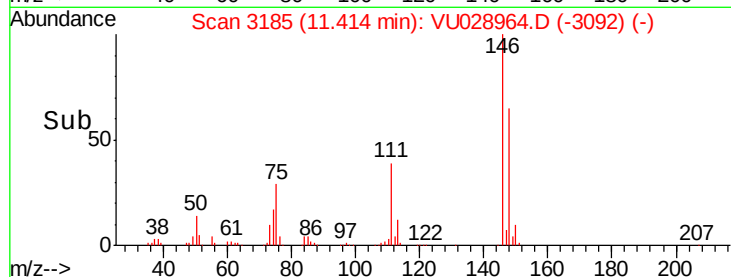
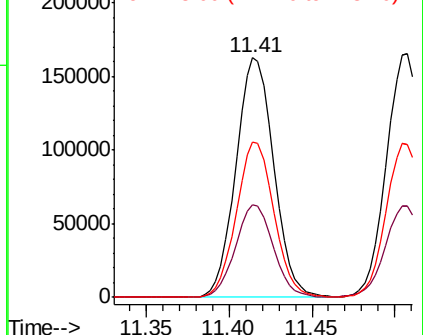
148 65.0 44.2 82.2



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



#63

1,4-Dichlorobenzene

Concen: 58.100 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

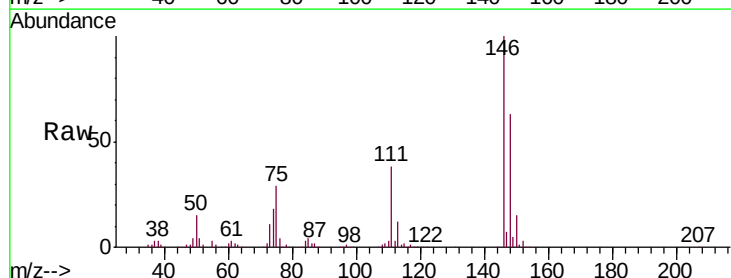
Tgt Ion:146 Resp: 259334

Ion Ratio Lower Upper

146 100

111 37.6 26.5 49.1

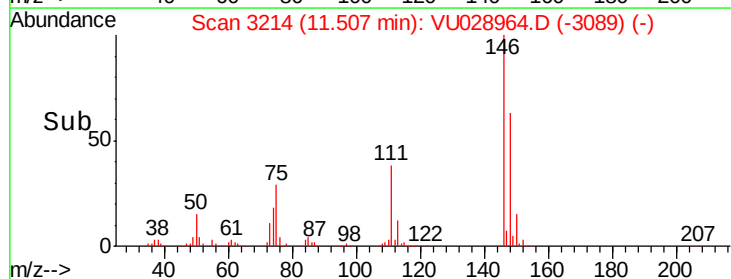
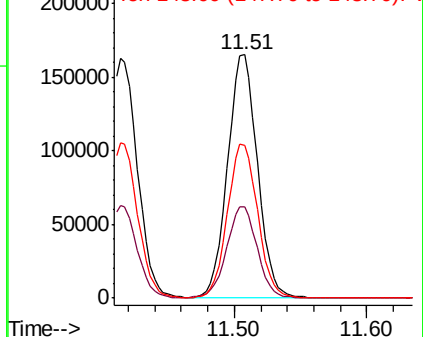
148 63.0 45.1 83.9

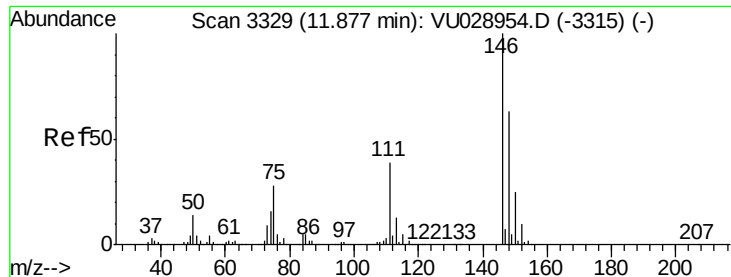


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

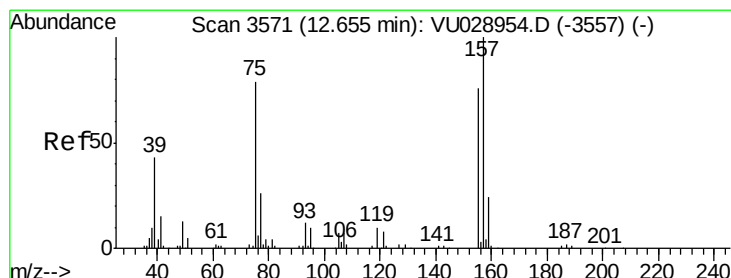
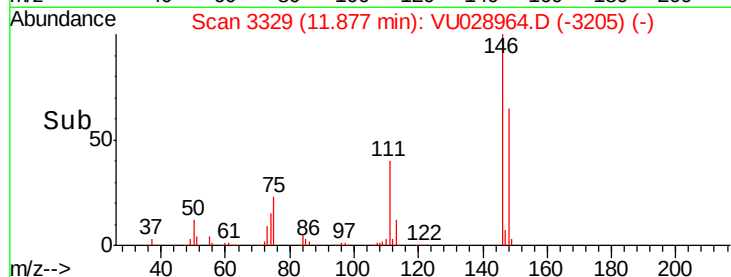
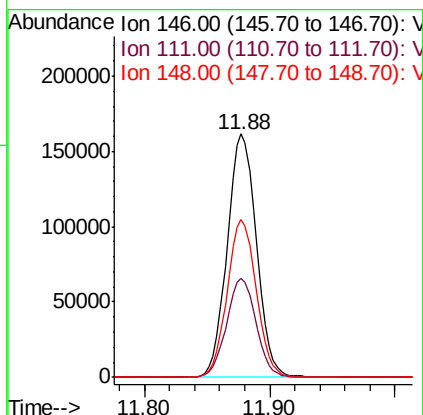
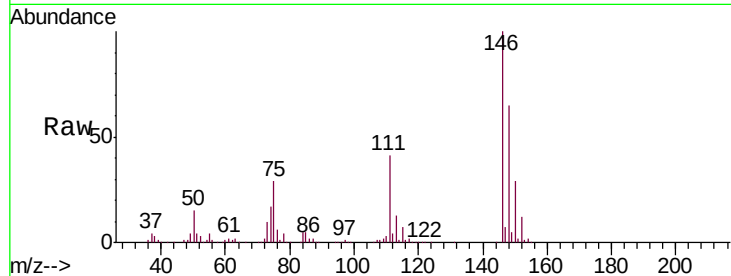




#65
 1,2-Dichlorobenzene
 Concen: 57.698 ug/L
 RT: 11.88 min Scan# 3329
 Delta R.T. 0.00 min
 Lab File: VU028964.D
 Acq: 27 Dec 2018 13:55

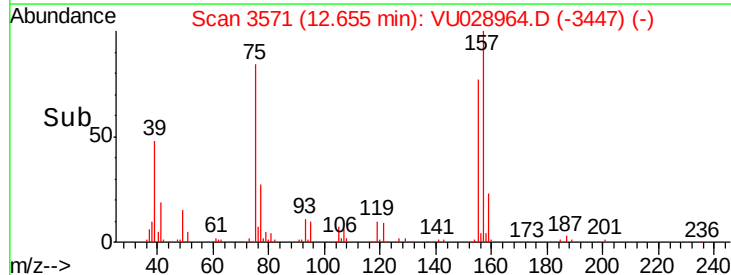
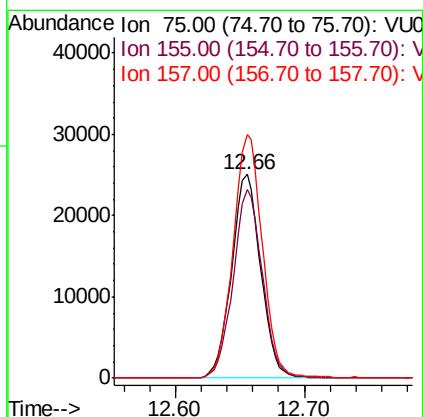
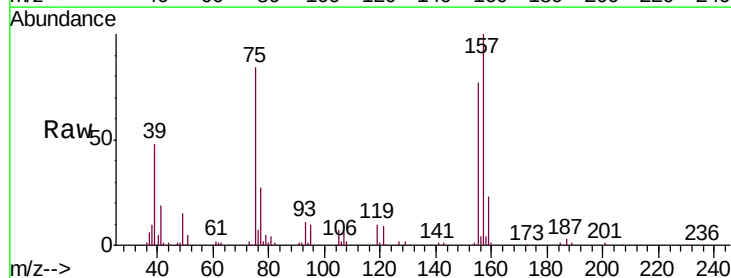
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

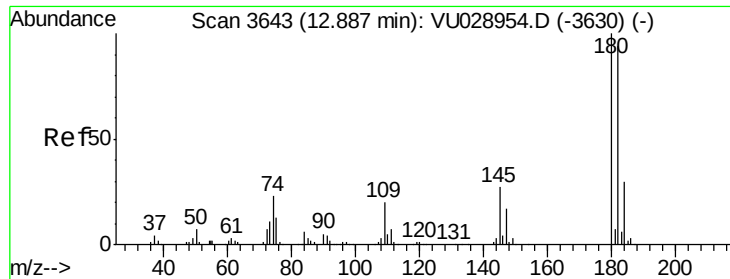
Tgt Ion: 146 Resp: 260761
 Ion Ratio Lower Upper
 146 100
 111 40.8 32.1 48.1
 148 64.8 49.7 74.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 50.440 ug/L
 RT: 12.66 min Scan# 3571
 Delta R.T. 0.00 min
 Lab File: VU028964.D
 Acq: 27 Dec 2018 13:55

Tgt Ion: 75 Resp: 39321
 Ion Ratio Lower Upper
 75 100
 155 92.3 71.4 107.2
 157 119.5 89.6 134.4

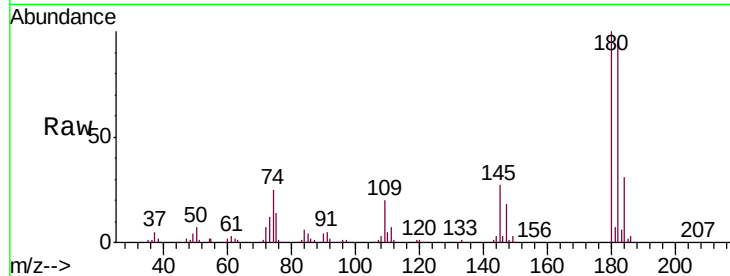




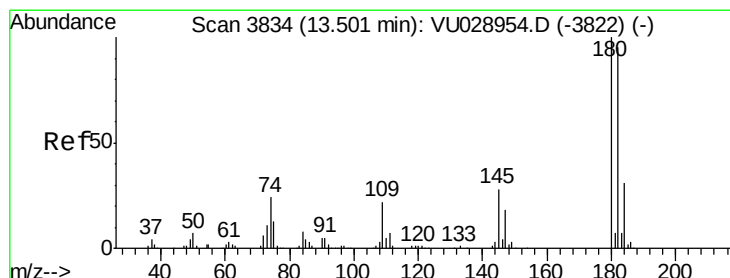
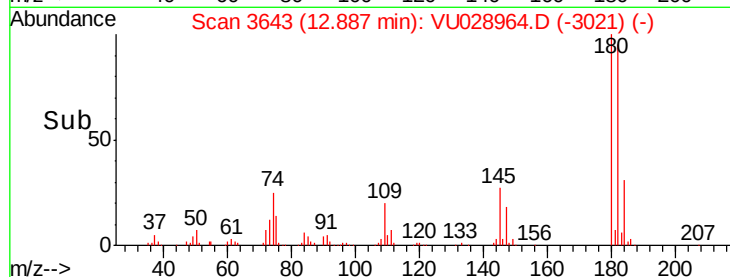
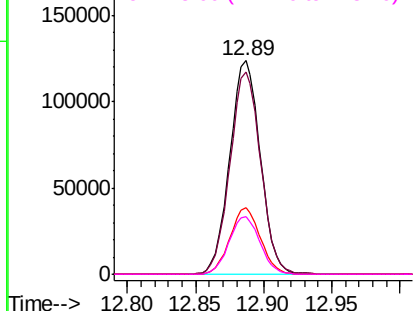
#67
 1,3,5-Trichlorobenzene
 Concen: 60.244 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU028964.D
 Acq: 27 Dec 2018 13:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

Tgt Ion:	180	Resp:	192438
Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.4	114.6
184	30.7	24.6	36.8
145	27.3	22.1	33.1

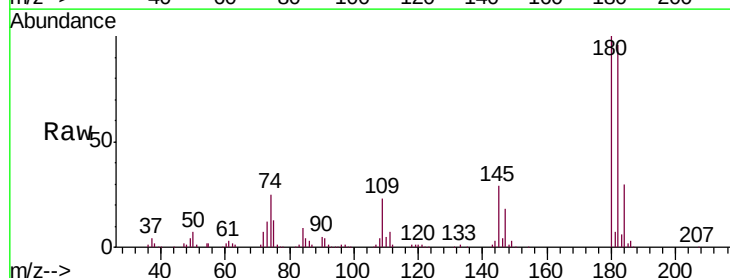


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

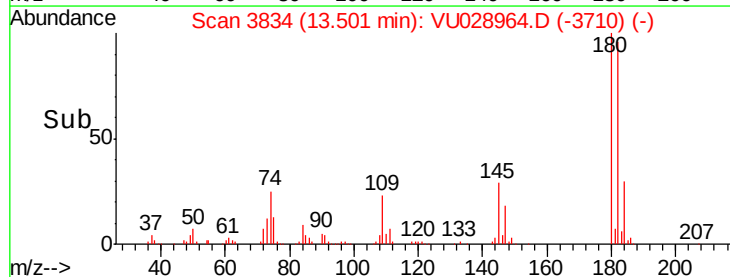
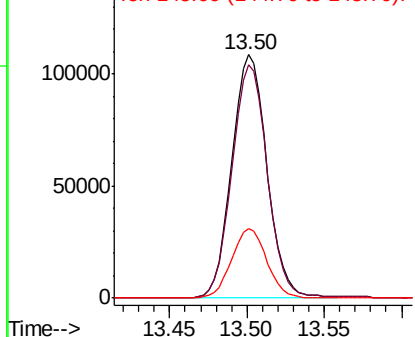


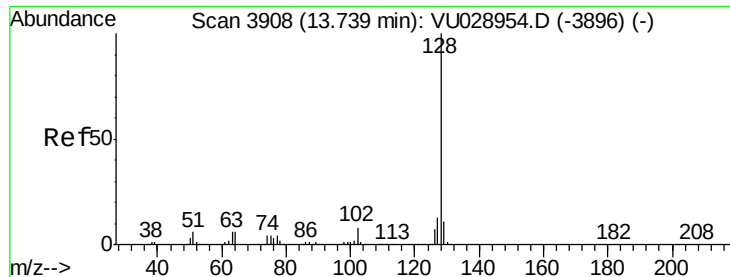
#68
 1,2,4-trichlorobenzene
 Concen: 64.020 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU028964.D
 Acq: 27 Dec 2018 13:55

Tgt Ion:	180	Resp:	171249
Ion	Ratio	Lower	Upper
180	100		
182	96.5	77.4	116.0
145	28.4	23.5	35.3



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





#69

Naphthalene

Concen: 61.279 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

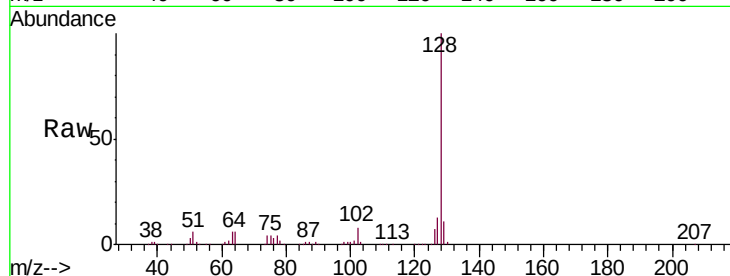
Tgt Ion:128 Resp: 569094

Ion Ratio Lower Upper

128 100

127 12.7 10.5 15.7

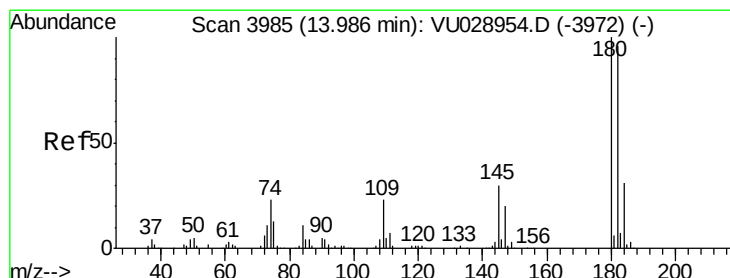
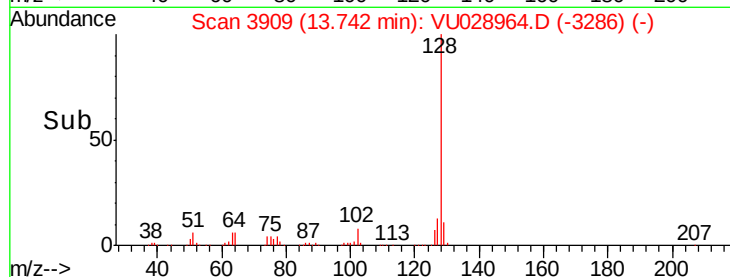
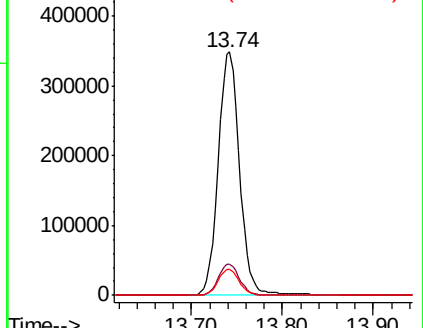
129 10.7 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 60.905 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU028964.D

Acq: 27 Dec 2018 13:55

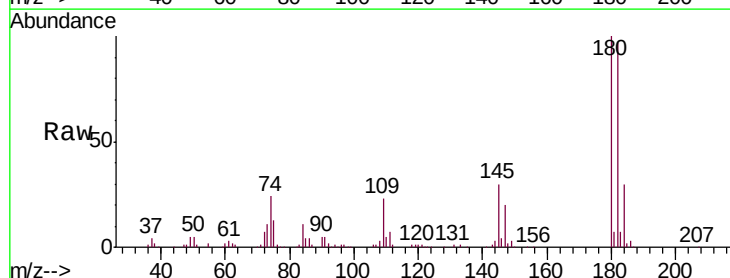
Tgt Ion:180 Resp: 175672

Ion Ratio Lower Upper

180 100

182 95.8 75.8 113.8

145 29.8 24.5 36.7



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

