

Data File : VU033932.D
Acq On : 23 Aug 2019 10:41
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

Quant Time: Aug 26 06:49:11 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM082219WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 23 12:52:30 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	548467	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	562678	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	287755	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	234253	48.70	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	97.40%
7) Chloroethane-d5	1.67	69	191083	50.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.16%
11) 1,1-Dichloroethene-d2	2.26	63	433293	49.94	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.88%
21) 2-Butanone-d5	4.15	46	318458	98.39	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	98.39%
24) Chloroform-d	4.62	84	398491	50.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.78%
26) 1,2-Dichloroethane-d4	5.28	65	258167	51.02	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.04%
32) Benzene-d6	5.31	84	795010	49.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.48%
36) 1,2-Dichloropropane-d6	6.31	67	255641	49.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.58%
41) Toluene-d8	7.54	98	718118	49.72	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.44%
43) trans-1,3-Dichloropropene-	7.83	79	116822	48.80	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.60%
47) 2-Hexanone-d5	8.29	63	204749	94.93	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	94.93%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	363099	49.16	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.32%
64) 1,2-Dichlorobenzene-d4	11.84	152	266133	45.32	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.64%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	267739	52.731	ug/L	98
3) Chloromethane	1.32	50	263104	53.928	ug/L	99
5) Vinyl chloride	1.39	62	299391	52.243	ug/L	100
6) Bromomethane	1.61	94	117999	53.145	ug/L	94
8) Chloroethane	1.68	64	183014	53.235	ug/L	99
9) Trichlorofluoromethane	1.87	101	354029	52.678	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	205803	53.557	ug/L	98
12) 1,1-Dichloroethene	2.27	96	193532	52.319	ug/L	96
13) Acetone	2.30	43	317921	107.544	ug/L	100
14) Carbon disulfide	2.46	76	619292	52.055	ug/L	100
15) Methyl Acetate	2.59	43	276110	53.633	ug/L	99
16) Methylene chloride	2.68	84	233390	52.368	ug/L	98
17) trans-1,2-Dichloroethene	2.96	96	204842	51.558	ug/L	100
18) Methyl tert-butyl Ether	2.98	73	624311	51.912	ug/L	99
19) 1,1-Dichloroethane	3.42	63	417358	52.710	ug/L	98
20) cis-1,2-Dichloroethene	4.20	96	221672	50.687	ug/L	99
22) 2-Butanone	4.23	43	410821	110.610	ug/L	99

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Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	117832	52.390	ug/L	97
25) Chloroform	4.65	83	416008	53.050	ug/L	97
27) 1,2-Dichloroethane	5.38	62	327285	53.187	ug/L	100
29) Cyclohexane	4.97	56	334764	51.564	ug/L	98
30) 1,1,1-Trichloroethane	4.89	97	335511	51.776	ug/L	99
31) Carbon tetrachloride	5.11	117	292736	50.894	ug/L	99
33) Benzene	5.36	78	897894	52.773	ug/L	100
34) Trichloroethene	6.16	95	217469	49.260	ug/L	99
35) Methylcyclohexane	6.39	83	346928	52.126	ug/L	98
37) 1,2-Dichloropropane	6.41	63	244721	52.574	ug/L	100
38) Bromodichloromethane	6.74	83	307092	51.056	ug/L	97
39) cis-1,3-Dichloropropene	7.25	75	357960	51.739	ug/L	100
40) 4-Methyl-2-pentanone	7.44	43	712966	106.944	ug/L	99
42) Toluene	7.62	91	938595	53.311	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	322300	51.696	ug/L	99
45) 1,1,2-Trichloroethane	8.04	97	222120	52.009	ug/L	99
46) Tetrachloroethene	8.21	164	172262	50.210	ug/L	99
48) 2-Hexanone	8.34	43	565020	109.147	ug/L	98
49) Dibromochloromethane	8.46	129	237381	50.105	ug/L	99
50) 1,2-Dibromoethane	8.57	107	235595	51.730	ug/L	97
51) Chlorobenzene	9.10	112	584315	50.181	ug/L	98
52) Ethylbenzene	9.23	91	997339	52.445	ug/L	99
53) m,p-Xylene	9.36	106	377926	53.929	ug/L	99
54) o-xylene	9.76	106	364677	52.792	ug/L	100
55) Styrene	9.77	104	647236	55.027	ug/L	99
56) Isopropylbenzene	10.15	105	956387	53.280	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	385028	52.016	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	308044	51.782	ug/L	100
61) Bromoform	9.94	173	176328	48.576	ug/L	98
62) 1,3-Dichlorobenzene	11.40	146	455992	50.447	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	460768	49.195	ug/L	97
65) 1,2-Dichlorobenzene	11.86	146	451764	50.097	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	83494	50.484	ug/L	98
67) 1,3,5-Trichlorobenzene	12.87	180	336883	48.487	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	271463	47.651	ug/L	100
69) Naphthalene	13.73	128	825555	48.536	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	300938	49.986	ug/L	100

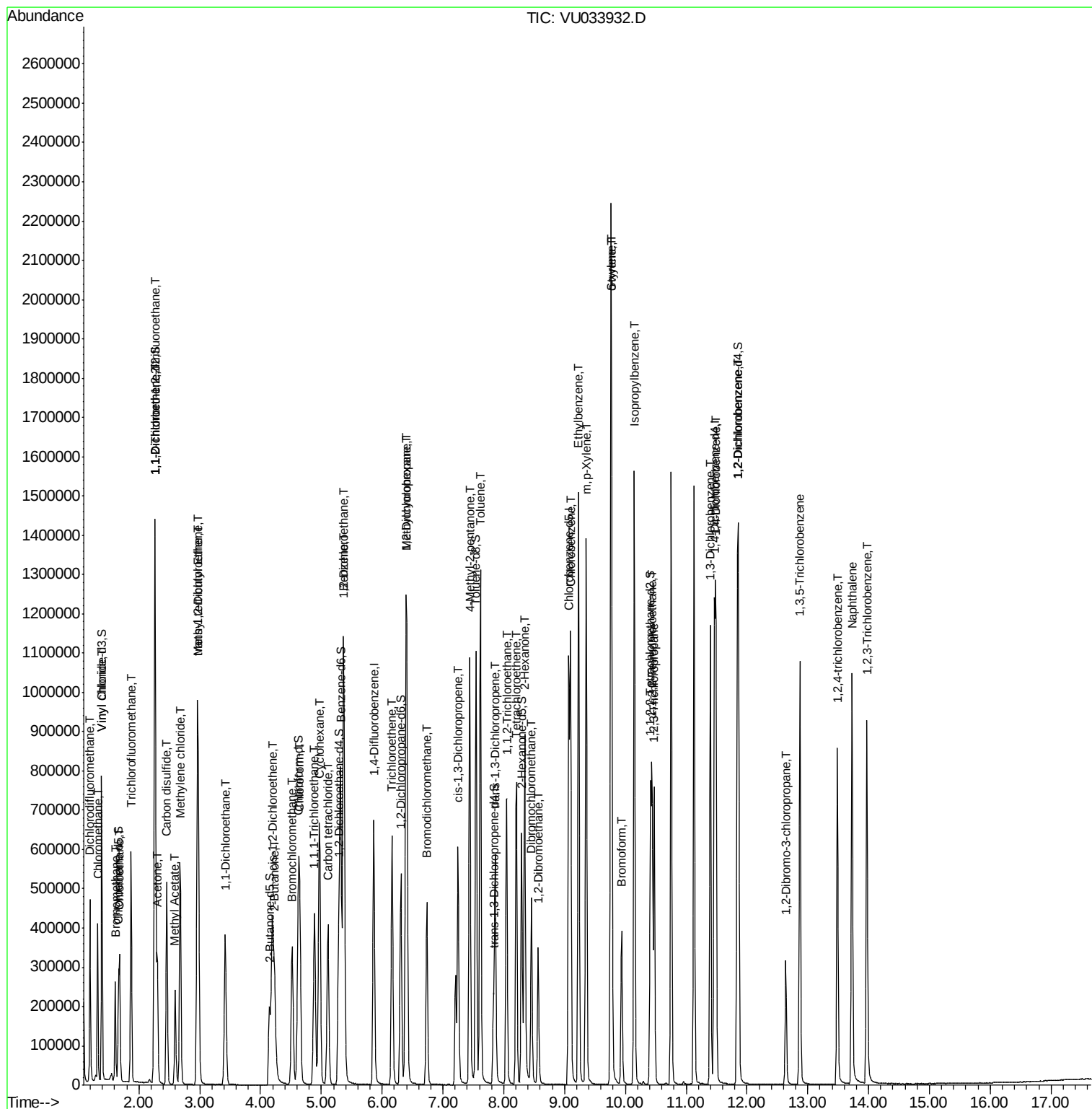
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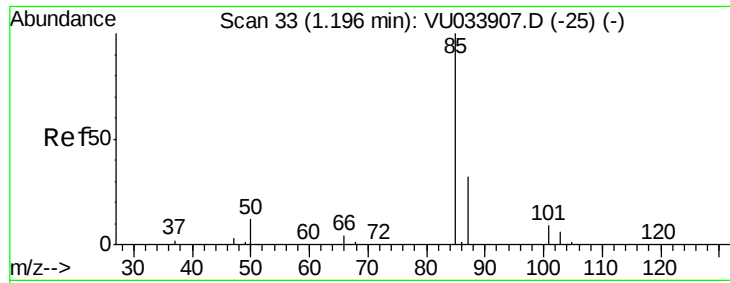
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#2

Dichlorodifluoromethane

Concen: 52.731 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

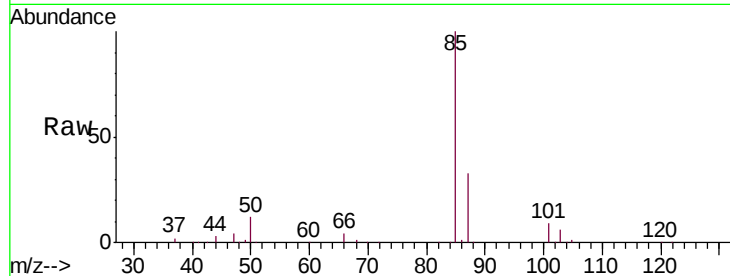
VSTD05052

Tgt Ion: 85 Resp: 267739

Ion Ratio Lower Upper

85 100

87 33.0 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VU033932.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033932.D (-1) (-)

1.20

250000

200000

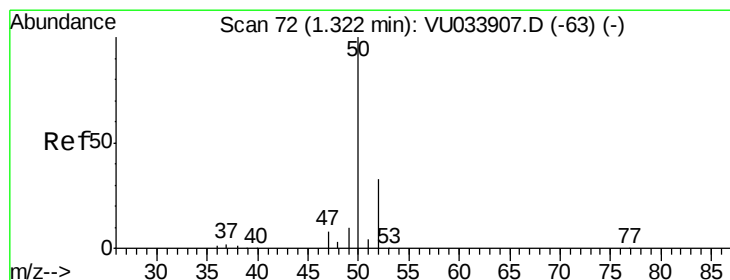
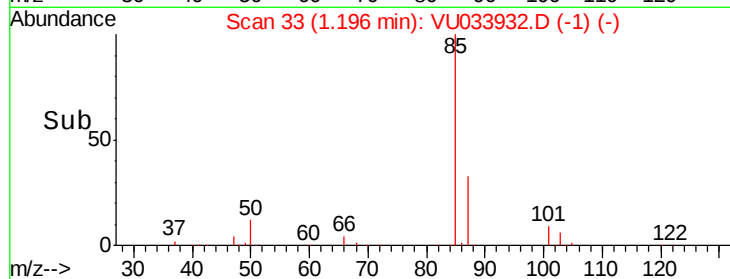
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 53.928 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU033932.D

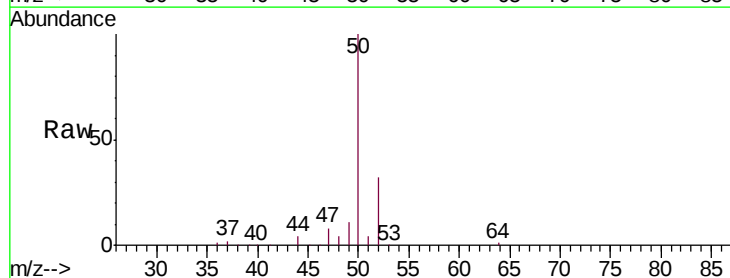
Acq: 23 Aug 2019 10:41

Tgt Ion: 50 Resp: 263104

Ion Ratio Lower Upper

50 100

52 32.3 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VU033932.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033932.D (-1) (-)

1.32

250000

200000

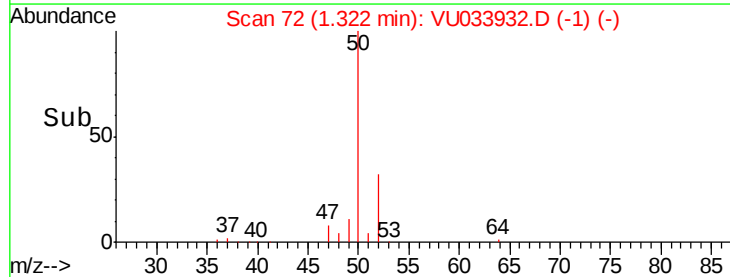
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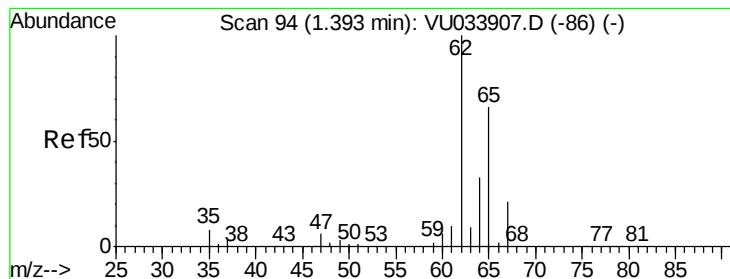
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 52.243 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

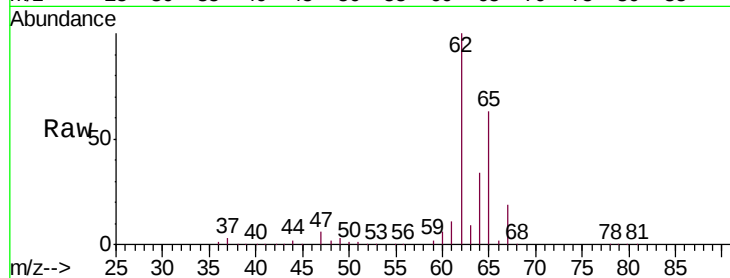
VSTD05052

Tgt Ion: 62 Resp: 299391

Ion Ratio Lower Upper

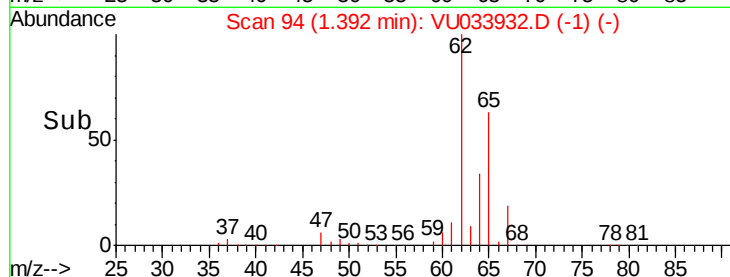
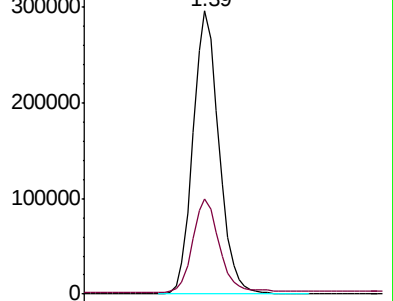
62 100

64 33.7 23.7 44.1

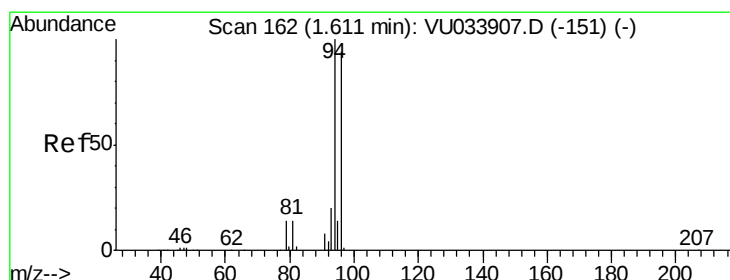


Abundance Ion 62.00 (61.70 to 62.70): VU033907.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU033907.D (-86) (-)



Time-->



#6

Bromomethane

Concen: 53.145 ug/L

RT: 1.61 min Scan# 162

Delta R.T. -0.00 min

Lab File: VU033932.D

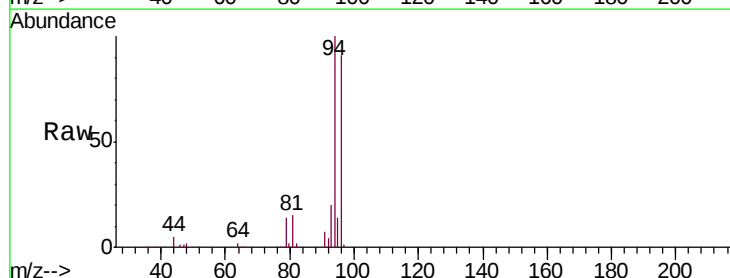
Acq: 23 Aug 2019 10:41

Tgt Ion: 94 Resp: 117999

Ion Ratio Lower Upper

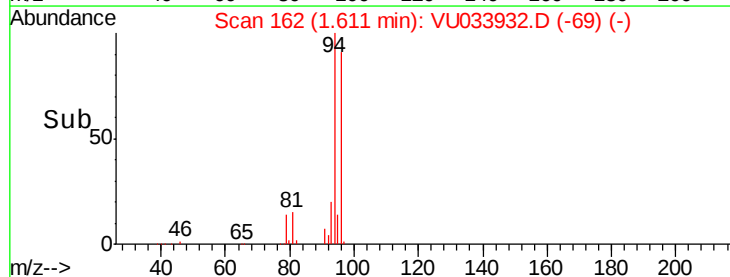
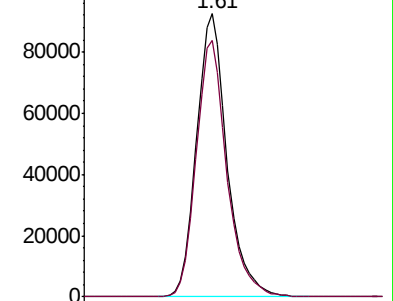
94 100

96 90.5 67.3 124.9

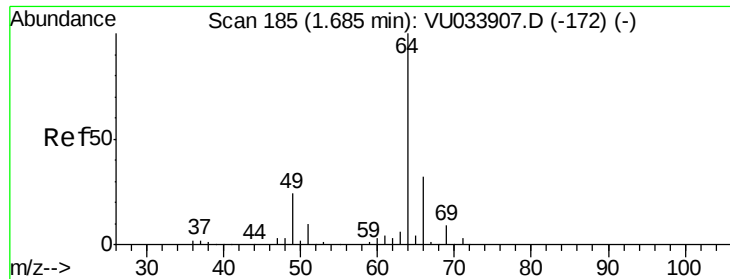


Abundance Ion 94.00 (93.70 to 94.70): VU033907.D (-151) (-)

Ion 96.00 (95.70 to 96.70): VU033907.D (-151) (-)



Time-->



#8

Chloroethane

Concen: 53.235 ug/L

RT: 1.68 min Scan# 185

Delta R.T. -0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

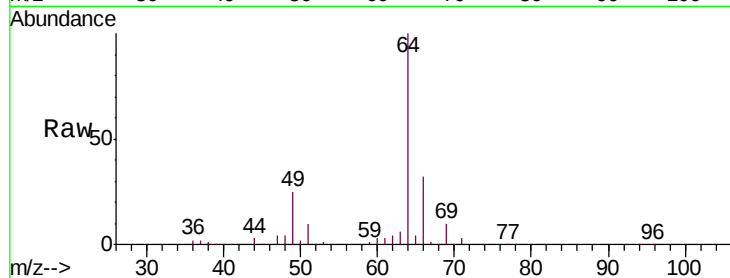
VSTD05052

Tgt Ion: 64 Resp: 183014

Ion Ratio Lower Upper

64 100

66 31.6 22.3 41.5



Abundance Ion 64.00 (63.70 to 64.70): VU033932.D (-172) (-)

Ion 66.00 (65.70 to 66.70): VU033932.D (-172) (-)

150000

100000

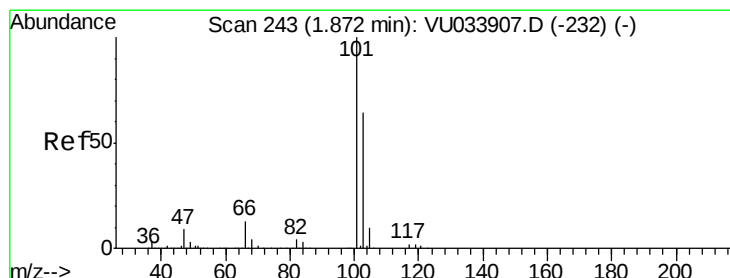
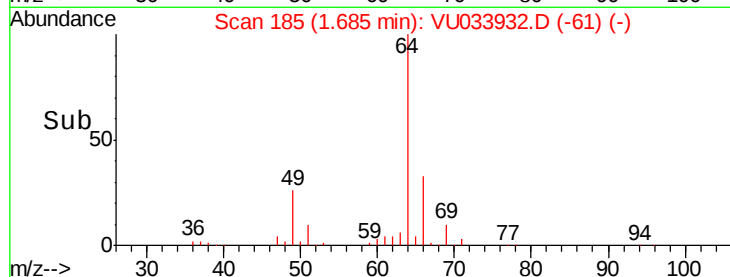
50000

0

1.68

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 52.678 ug/L

RT: 1.87 min Scan# 243

Delta R.T. -0.00 min

Lab File: VU033932.D

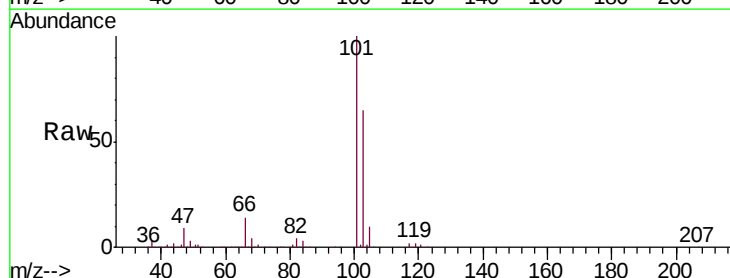
Acq: 23 Aug 2019 10:41

Tgt Ion: 101 Resp: 354029

Ion Ratio Lower Upper

101 100

103 64.3 50.9 76.3



Abundance Ion 101.00 (100.70 to 101.70): VU033932.D (-232) (-)

Ion 103.00 (102.70 to 103.70): VU033932.D (-232) (-)

300000

250000

200000

150000

100000

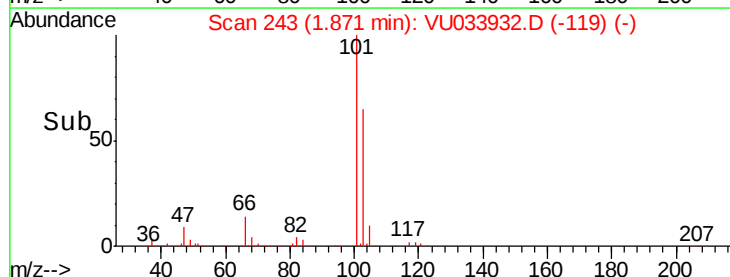
50000

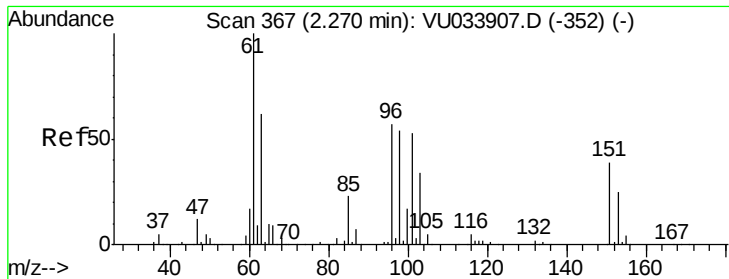
0

1.87

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 53.557 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

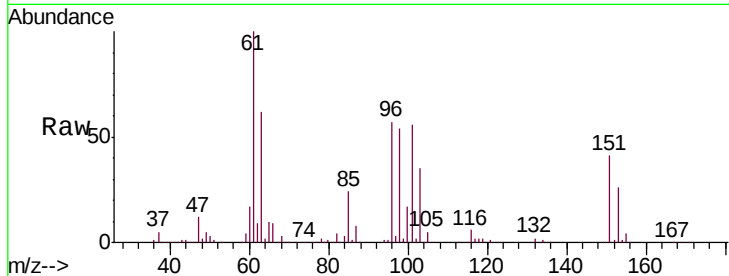
Tgt Ion: 101 Resp: 205803

Ion Ratio Lower Upper

101 100

85 43.7 33.7 50.5

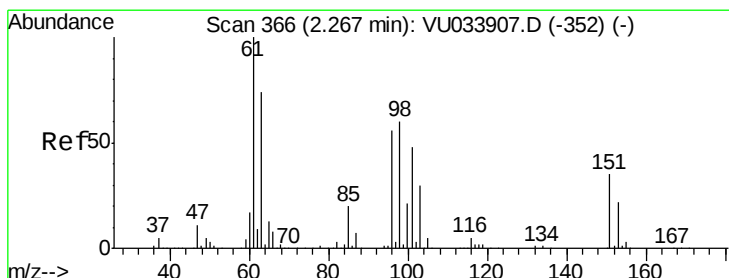
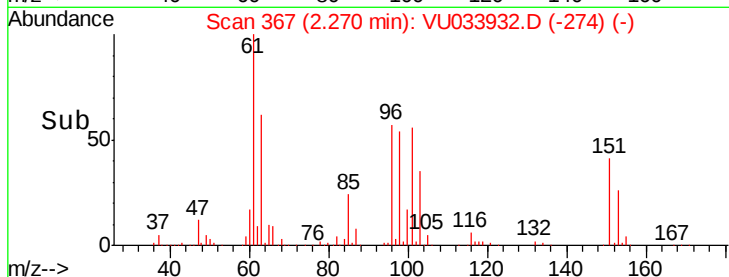
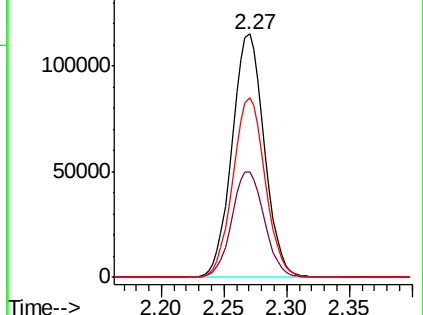
151 73.9 57.8 86.6



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: 52.319 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

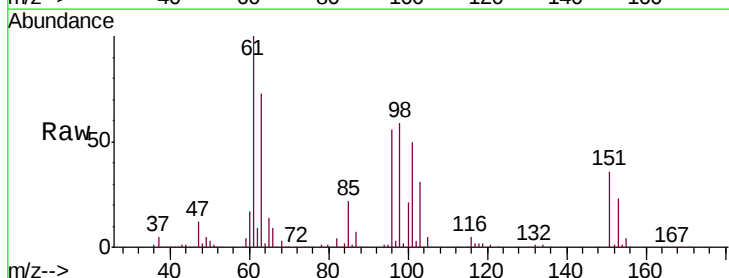
Tgt Ion: 96 Resp: 193532

Ion Ratio Lower Upper

96 100

61 179.9 124.7 231.5

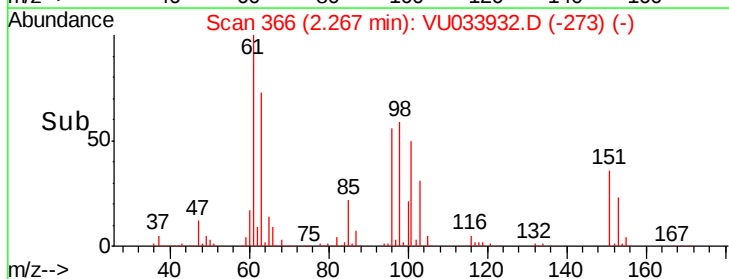
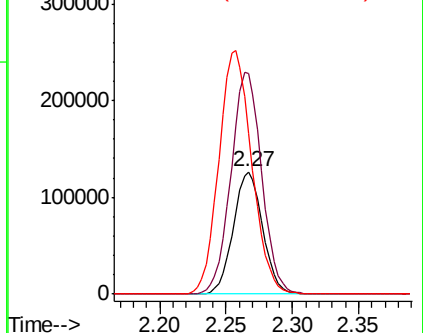
63 131.4 97.9 181.9

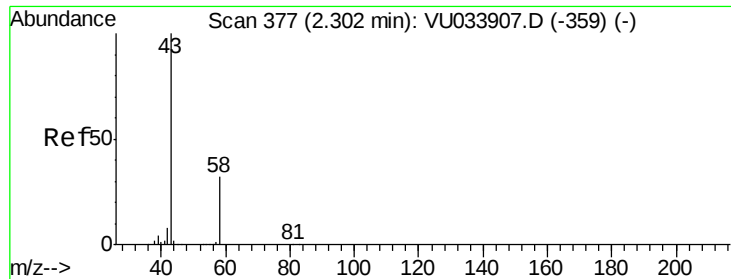


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

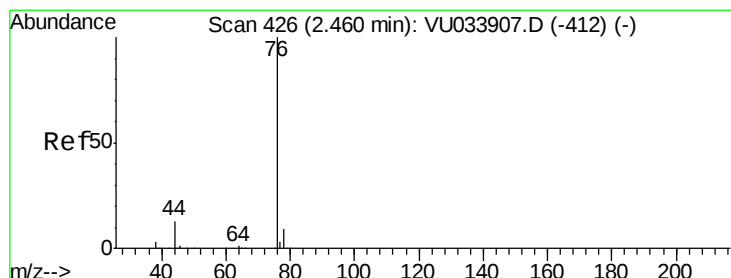
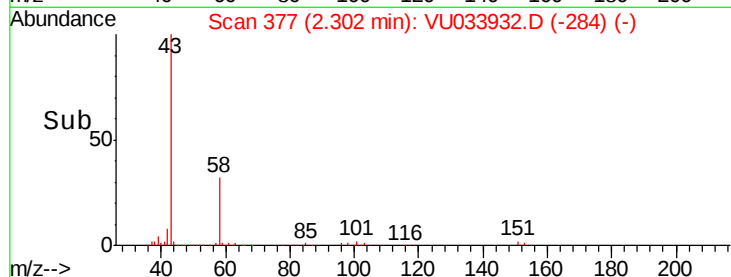
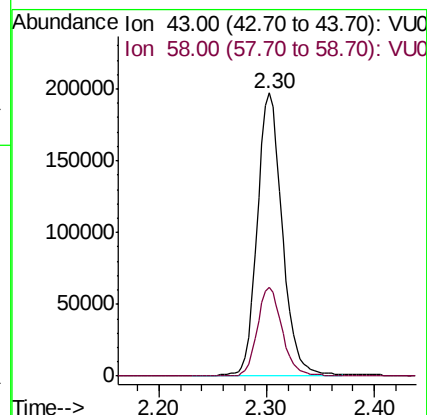
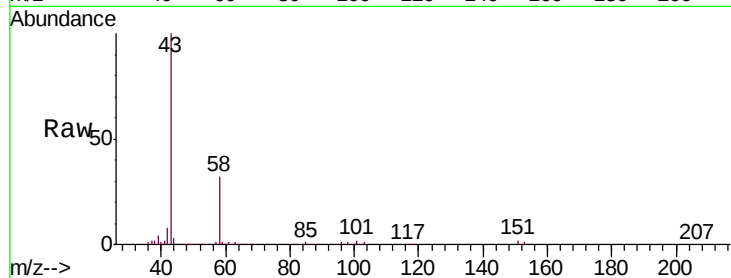




#13
Acetone
Concen: 107.544 ug/L
RT: 2.30 min Scan# 377
Delta R.T. -0.00 min
Lab File: VU033932.D
Acq: 23 Aug 2019 10:41

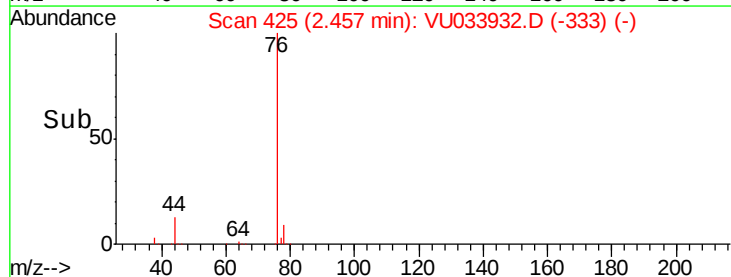
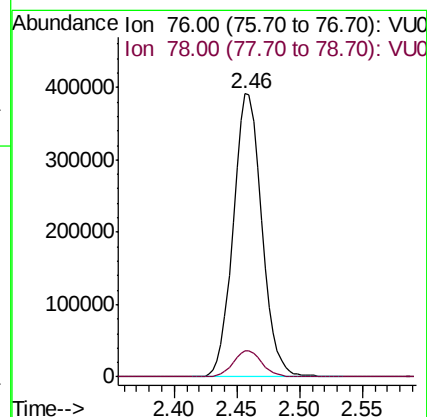
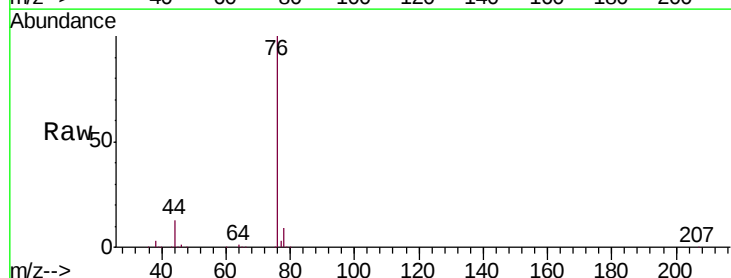
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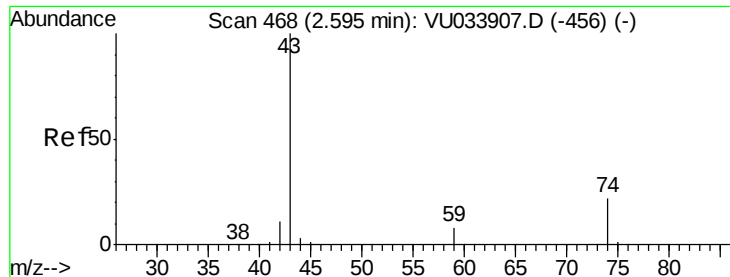
Tgt Ion: 43 Resp: 317921
Ion Ratio Lower Upper
43 100
58 31.1 0.0 62.4



#14
Carbon disulfide
Concen: 52.055 ug/L
RT: 2.46 min Scan# 425
Delta R.T. -0.00 min
Lab File: VU033932.D
Acq: 23 Aug 2019 10:41

Tgt Ion: 76 Resp: 619292
Ion Ratio Lower Upper
76 100
78 9.1 7.4 11.0





#15

Methyl Acetate

Concen: 53.633 ug/L

RT: 2.59 min Scan# 468

Delta R.T. -0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

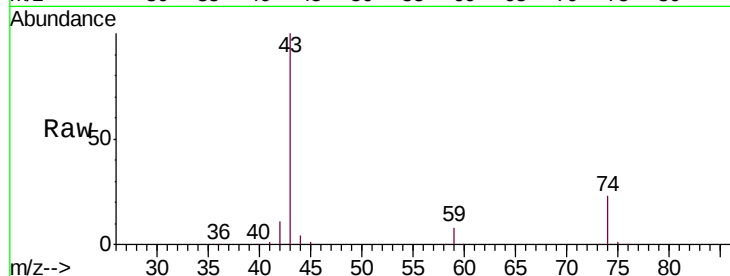
VSTD05052

Tgt Ion: 43 Resp: 276110

Ion Ratio Lower Upper

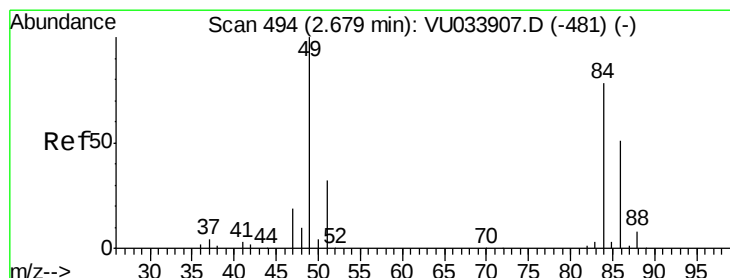
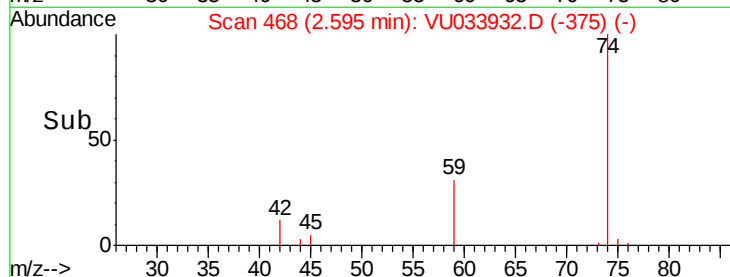
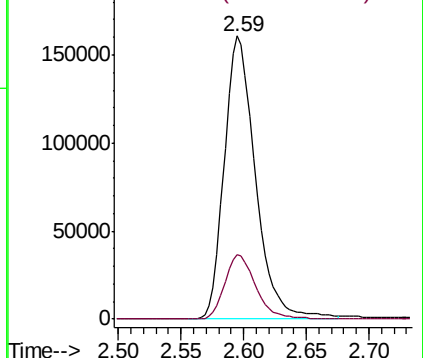
43 100

74 22.9 18.6 27.8



Abundance Ion 43.00 (42.70 to 43.70): VU033932.D (-456) (-)

Ion 74.00 (73.70 to 74.70): VU033932.D (-456) (-)



#16

Methylene chloride

Concen: 52.368 ug/L

RT: 2.68 min Scan# 494

Delta R.T. -0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

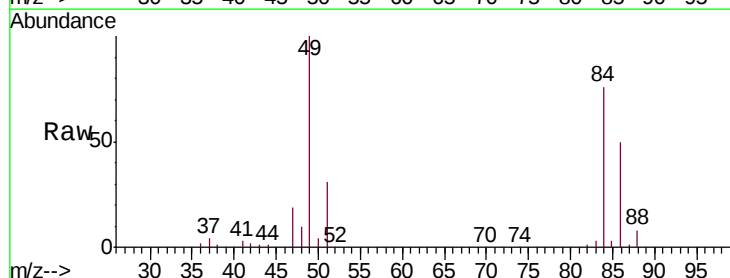
Tgt Ion: 84 Resp: 233390

Ion Ratio Lower Upper

84 100

86 65.1 45.3 84.1

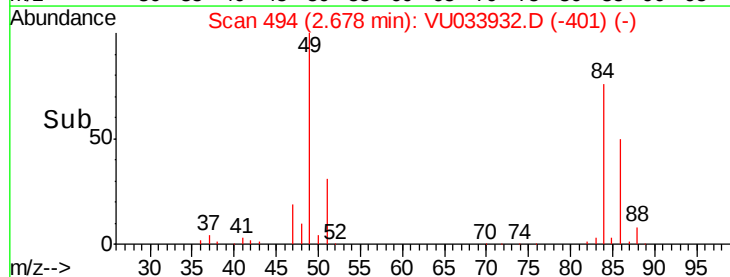
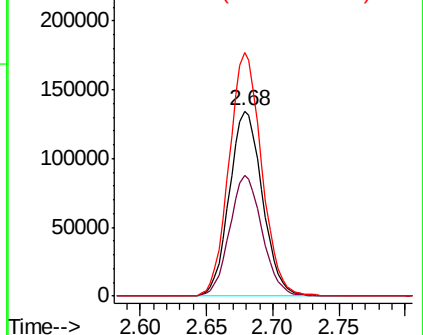
49 131.4 90.2 167.6

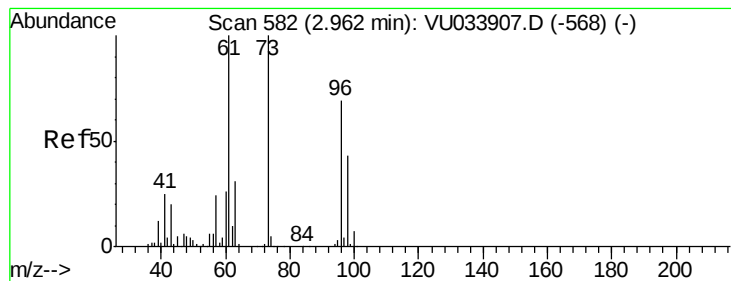


Abundance Ion 84.00 (83.70 to 84.70): VU033932.D (-481) (-)

Ion 86.00 (85.70 to 86.70): VU033932.D (-481) (-)

Ion 49.00 (48.70 to 49.70): VU033932.D (-481) (-)





#17

trans-1,2-Dichloroethene

Concen: 51.558 ug/L

RT: 2.96 min Scan# 582

Delta R.T. -0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

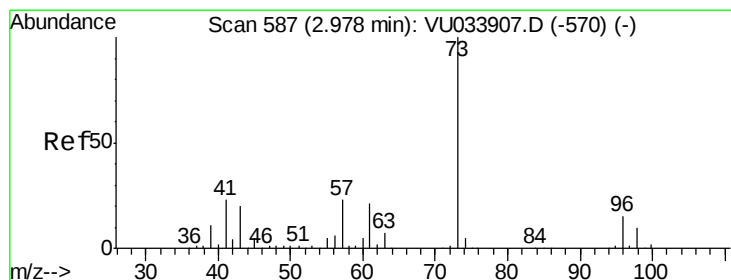
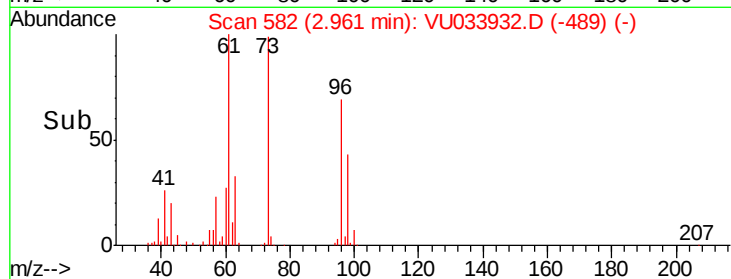
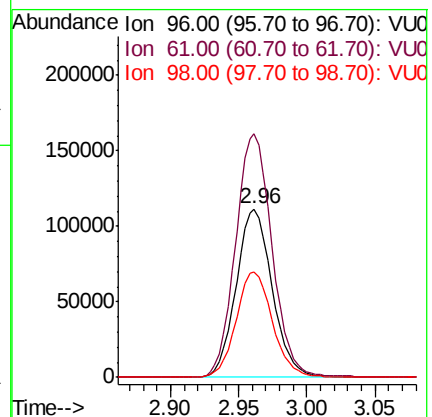
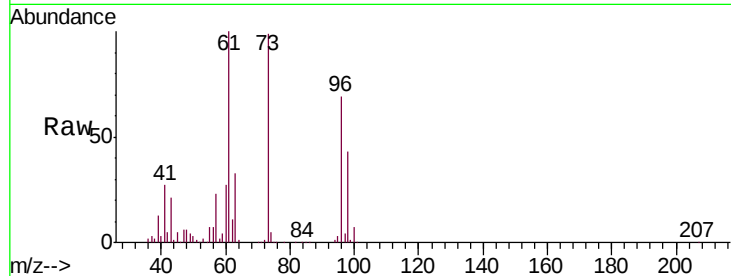
Tgt Ion: 96 Resp: 204842

Ion Ratio Lower Upper

96 100

61 144.8 101.2 187.8

98 62.8 44.0 81.6



#18

Methyl tert-butyl Ether

Concen: 51.912 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

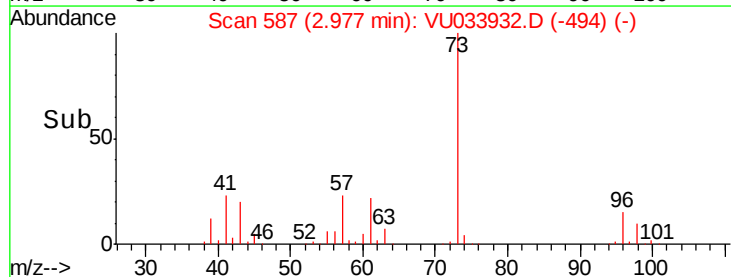
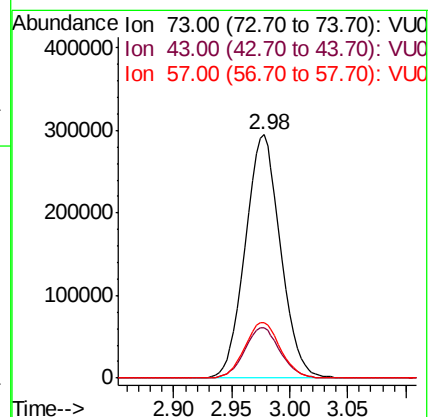
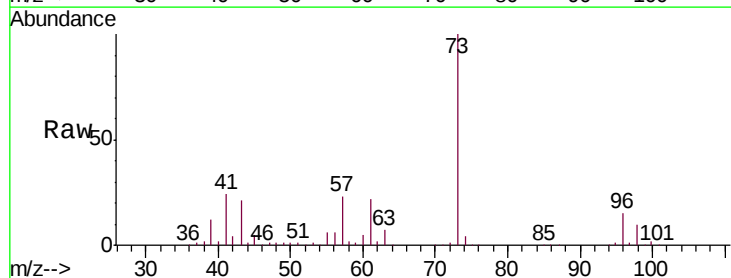
Tgt Ion: 73 Resp: 624311

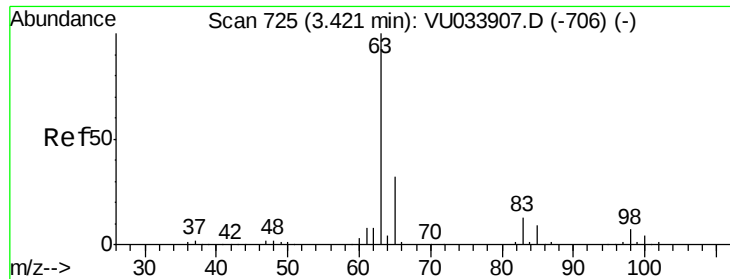
Ion Ratio Lower Upper

73 100

43 20.7 16.3 24.5

57 23.2 18.8 28.2

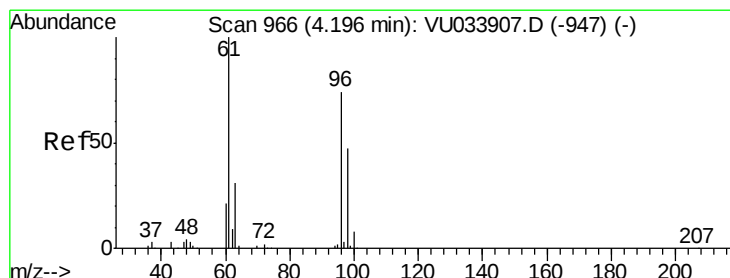
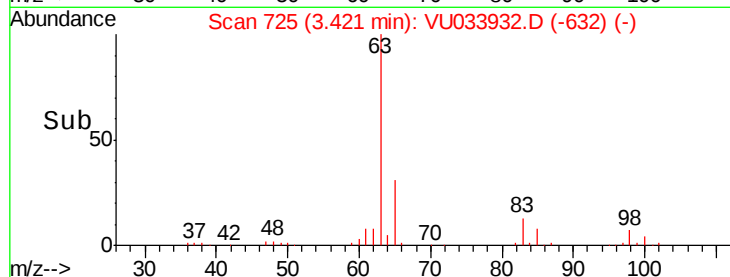
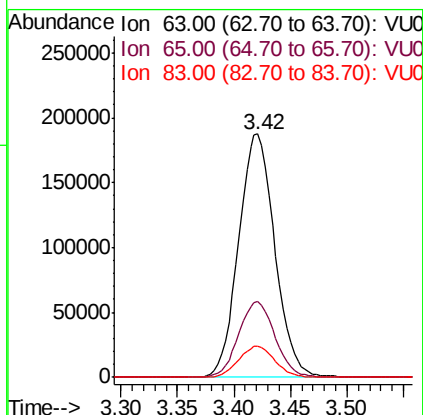
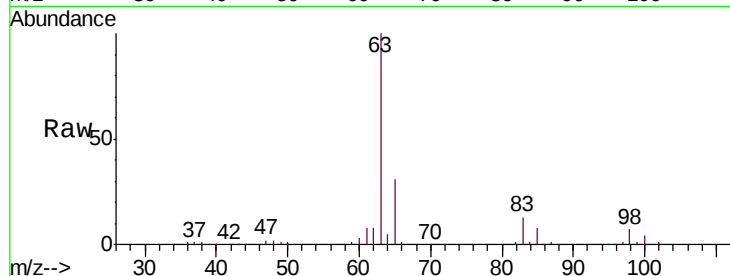




#19
 1,1-Dichloroethane
 Concen: 52.710 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. -0.00 min
 Lab File: VU033932.D
 Acq: 23 Aug 2019 10:41

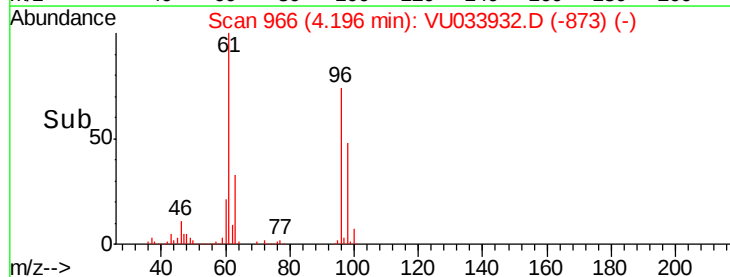
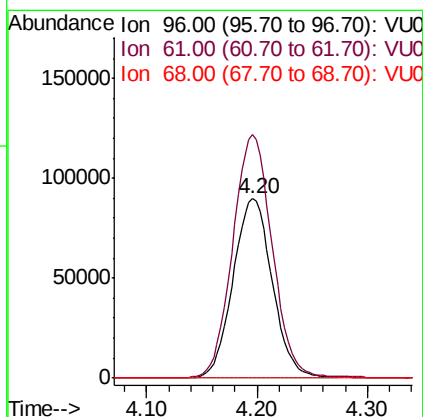
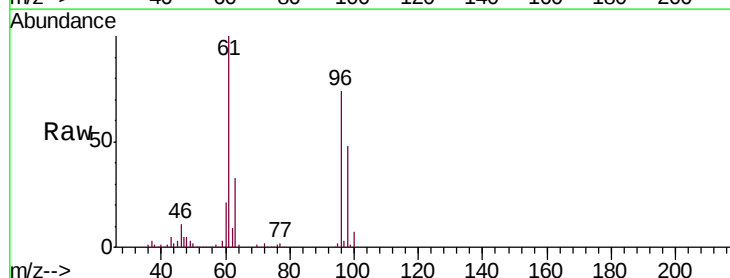
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

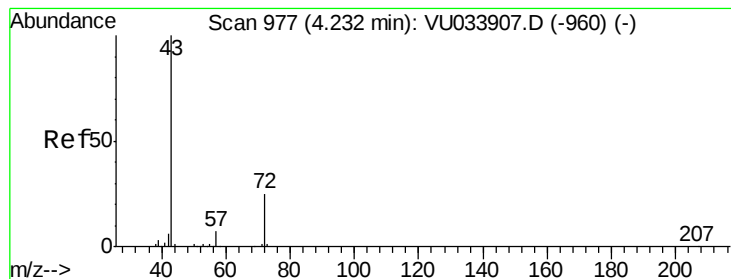
Tgt Ion: 63 Resp: 417358
 Ion Ratio Lower Upper
 63 100
 65 31.0 22.4 41.6
 83 12.8 9.4 17.6



#20
 cis-1,2-Dichloroethene
 Concen: 50.687 ug/L
 RT: 4.20 min Scan# 966
 Delta R.T. -0.00 min
 Lab File: VU033932.D
 Acq: 23 Aug 2019 10:41

Tgt Ion: 96 Resp: 221672
 Ion Ratio Lower Upper
 96 100
 61 135.7 95.5 177.4
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 110.610 ug/L

RT: 4.23 min Scan# 977

Delta R.T. -0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

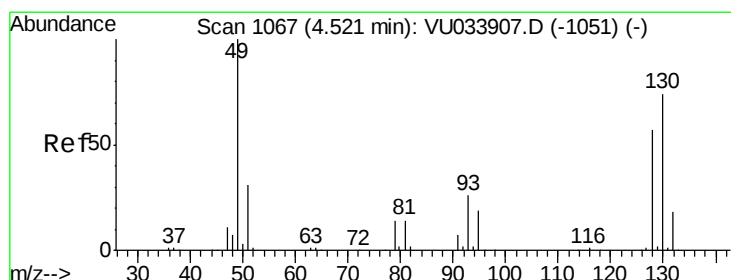
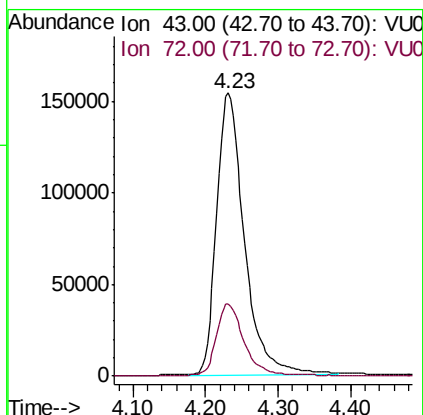
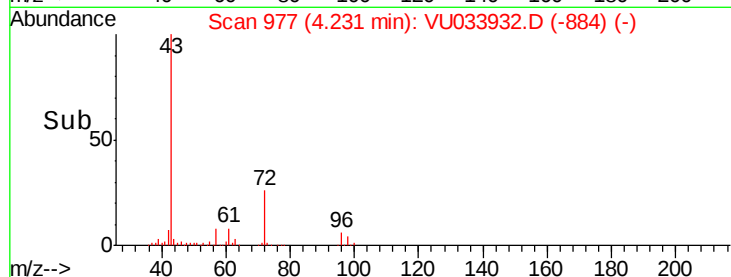
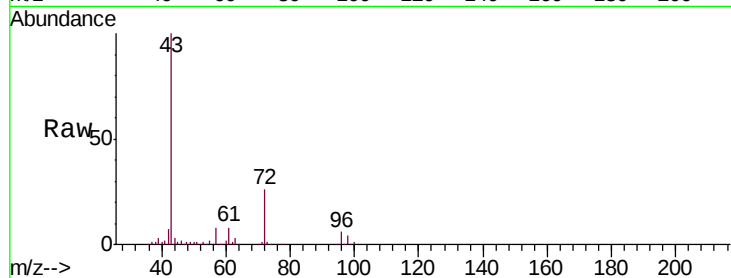
VSTD05052

Tgt Ion: 43 Resp: 410821

Ion Ratio Lower Upper

43 100

72 25.7 13.0 39.0



#23

Bromochloromethane

Concen: 52.390 ug/L

RT: 4.52 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

Tgt Ion: 128 Resp: 117832

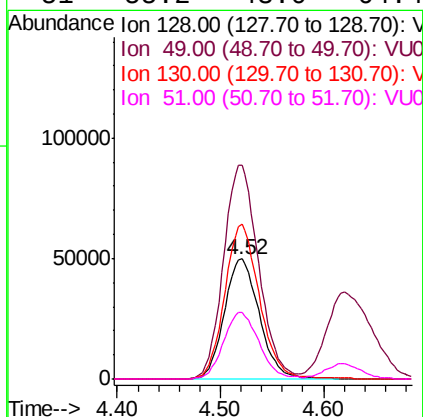
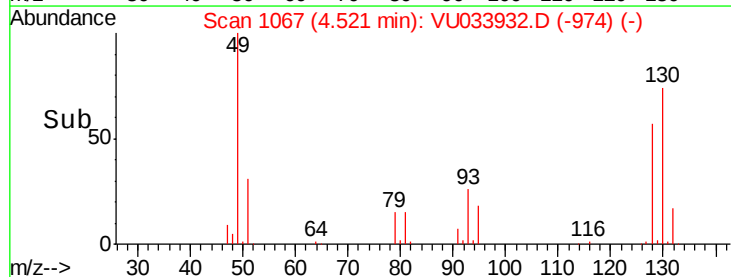
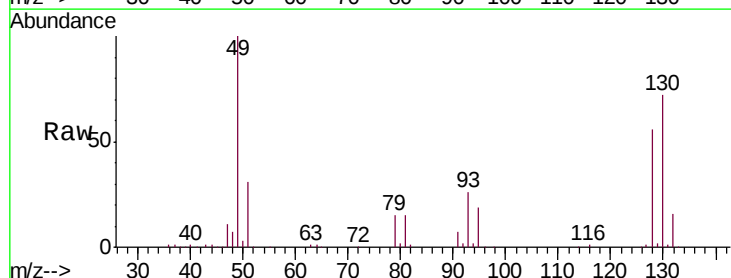
Ion Ratio Lower Upper

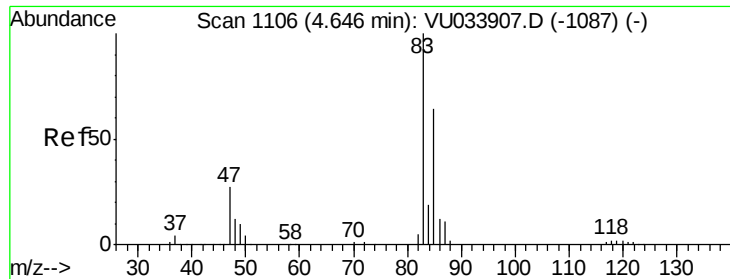
128 100

49 178.1 119.4 221.8

130 128.6 90.9 168.7

51 55.2 43.0 64.4

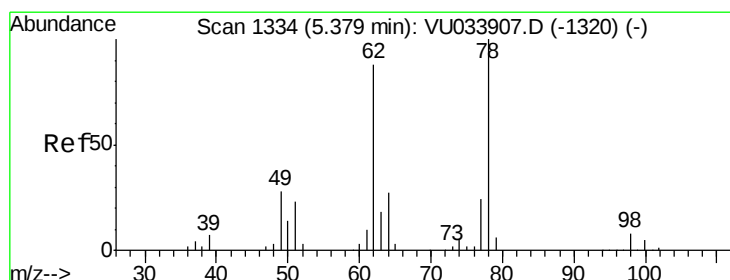
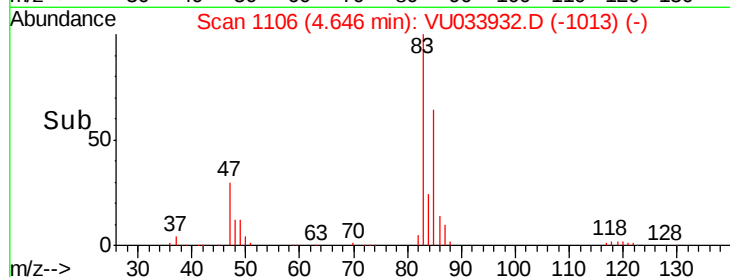
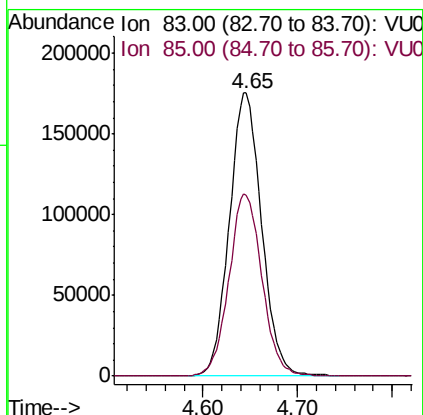
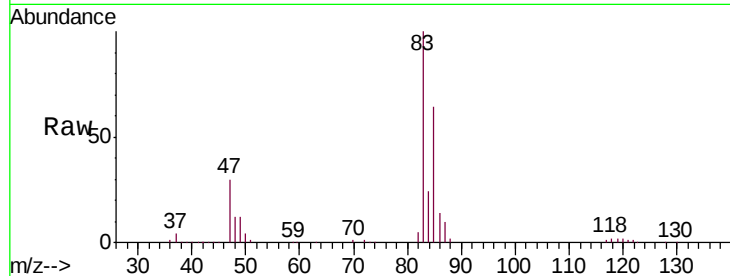




#25
Chloroform
Concen: 53.050 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033932.D
Acq: 23 Aug 2019 10:41

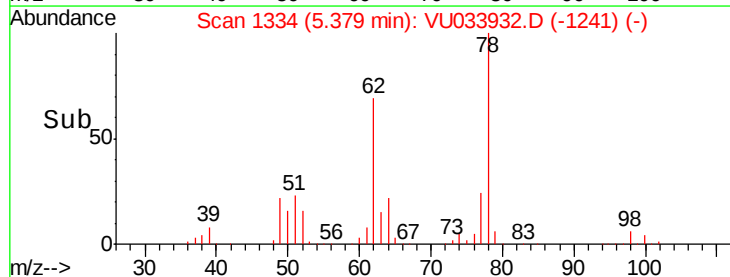
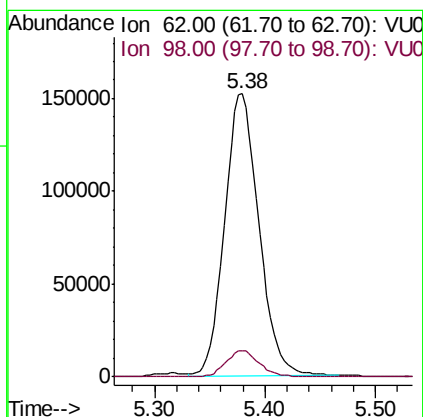
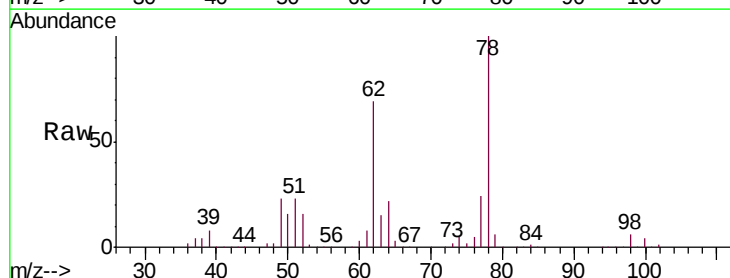
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

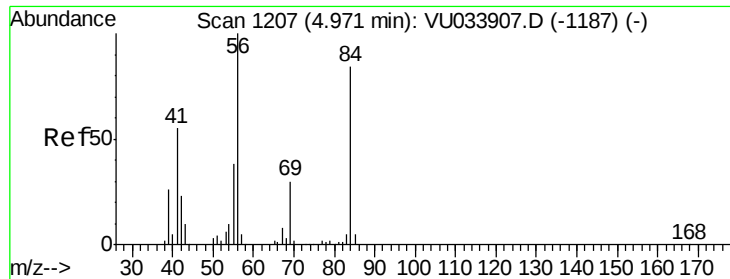
Tgt Ion: 83 Resp: 416008
Ion Ratio Lower Upper
83 100
85 63.8 46.2 85.8



#27
1,2-Dichloroethane
Concen: 53.187 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VU033932.D
Acq: 23 Aug 2019 10:41

Tgt Ion: 62 Resp: 327285
Ion Ratio Lower Upper
62 100
98 9.4 7.5 11.3

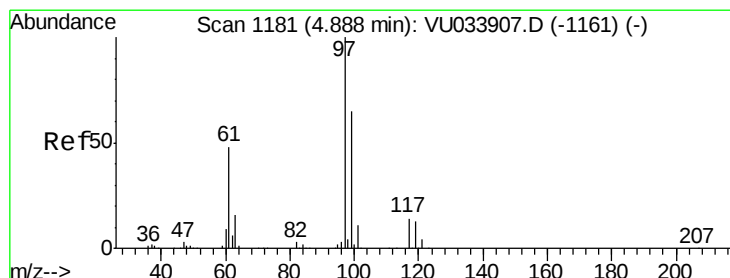
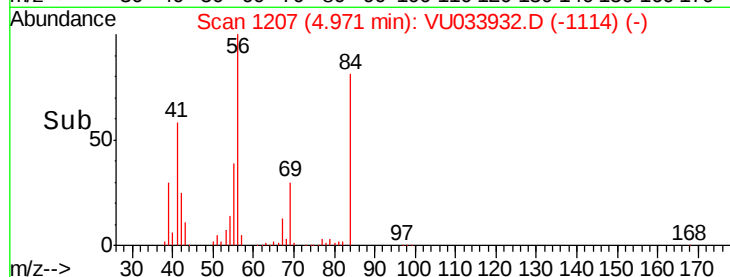
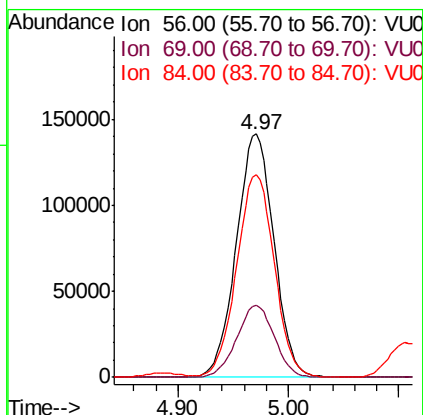
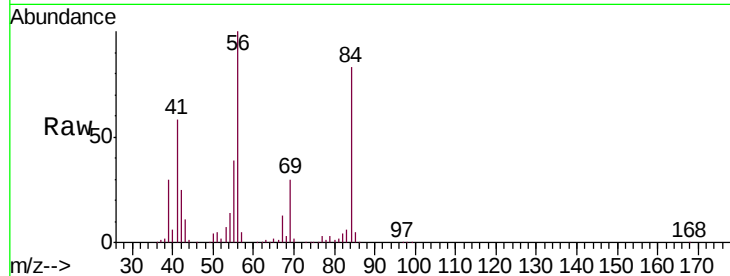




#29
Cyclohexane
Concen: 51.564 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033932.D
Acq: 23 Aug 2019 10:41

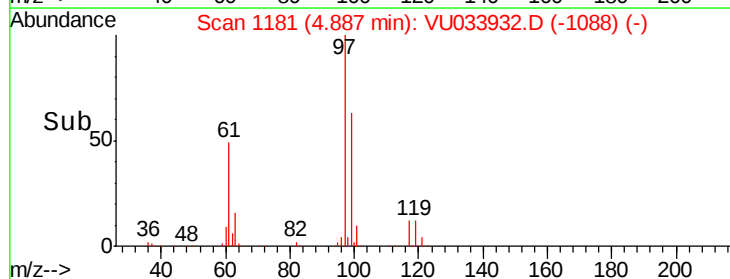
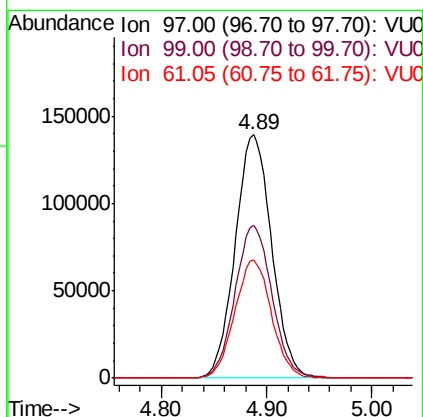
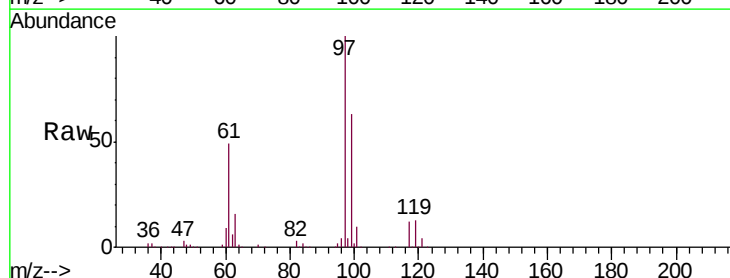
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

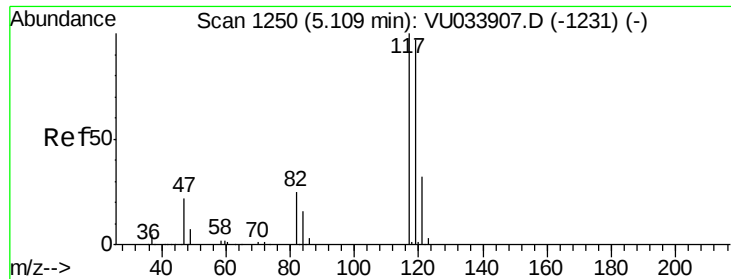
Tgt Ion: 56 Resp: 334764
Ion Ratio Lower Upper
56 100
69 29.5 24.1 36.1
84 83.3 68.6 103.0



#30
1,1,1-Trichloroethane
Concen: 51.776 ug/L
RT: 4.89 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU033932.D
Acq: 23 Aug 2019 10:41

Tgt Ion: 97 Resp: 335511
Ion Ratio Lower Upper
97 100
99 63.5 51.1 76.7
61 48.6 38.6 57.8

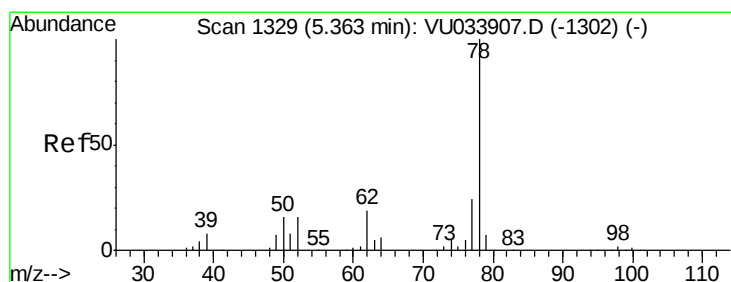
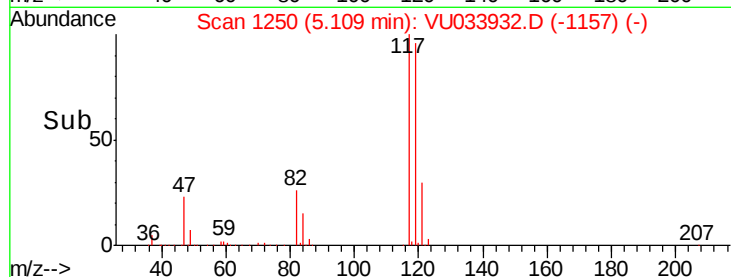
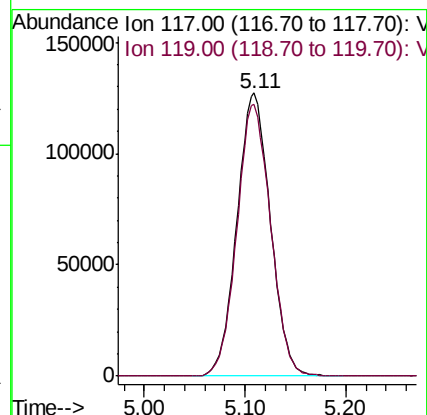
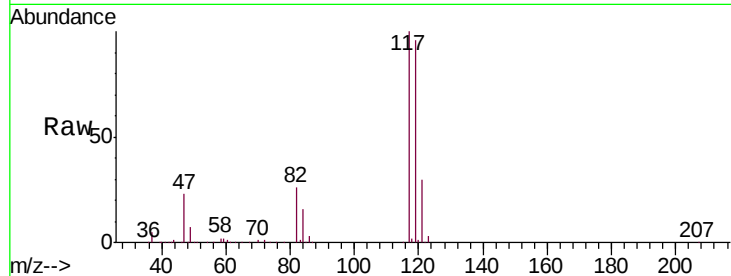




#31
Carbon tetrachloride
Concen: 50.894 ug/L
RT: 5.11 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU033932.D
Acq: 23 Aug 2019 10:41

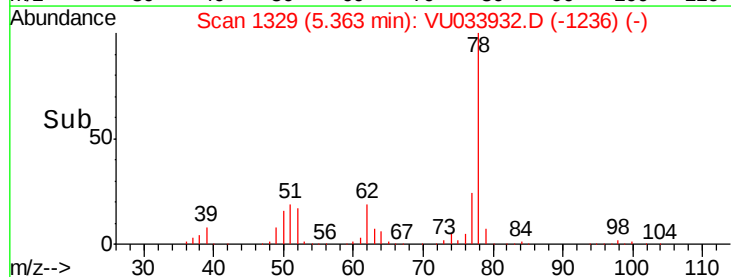
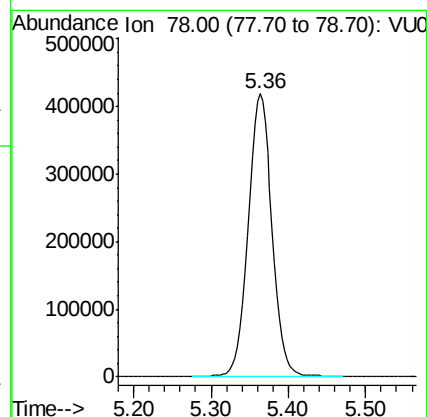
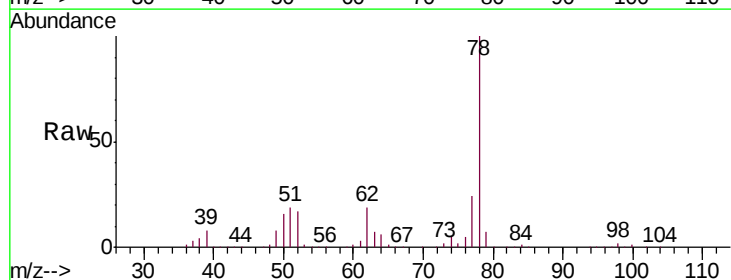
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

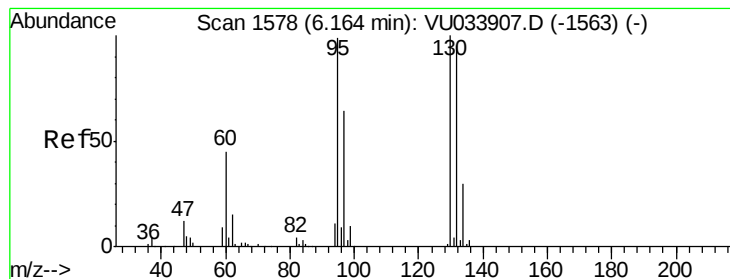
Tgt Ion:117 Resp: 292736
Ion Ratio Lower Upper
117 100
119 96.7 76.3 114.5



#33
Benzene
Concen: 52.773 ug/L
RT: 5.36 min Scan# 1329
Delta R.T. -0.00 min
Lab File: VU033932.D
Acq: 23 Aug 2019 10:41

Tgt Ion: 78 Resp: 897894





#34

Trichloroethene

Concen: 49.260 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

Tgt Ion: 95 Resp: 217469

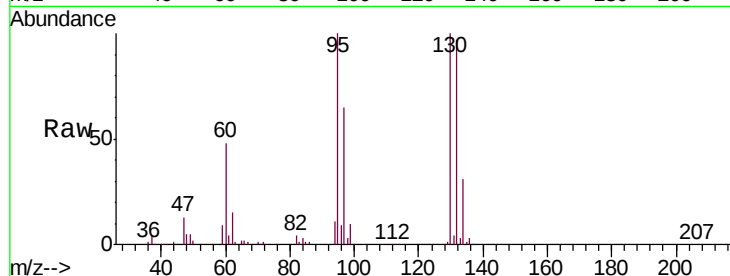
Ion Ratio Lower Upper

95 100

97 64.6 44.7 82.9

132 96.9 65.7 122.1

130 99.8 70.0 130.0

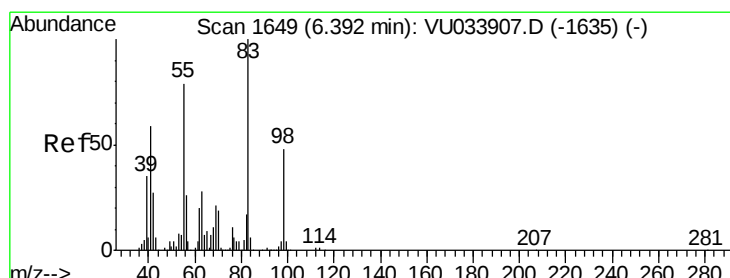
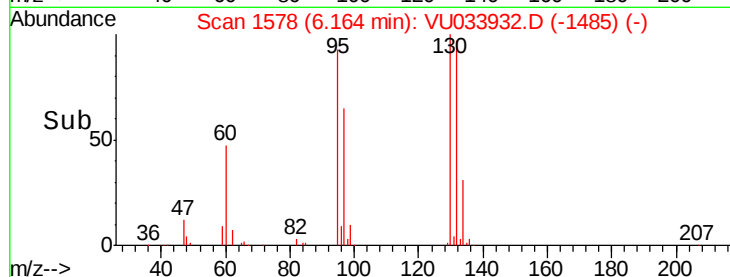
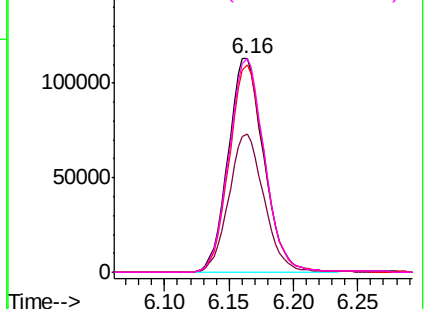


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 52.126 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

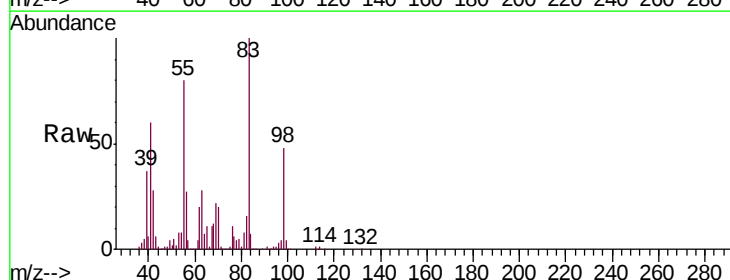
Tgt Ion: 83 Resp: 346928

Ion Ratio Lower Upper

83 100

55 82.6 64.4 96.6

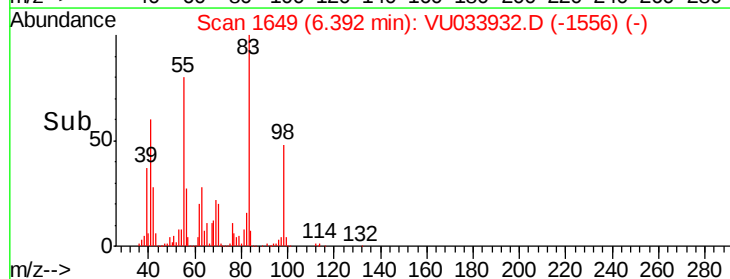
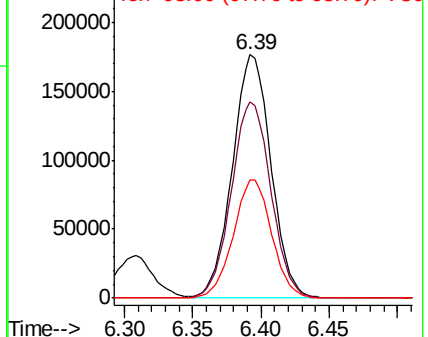
98 48.3 38.7 58.1

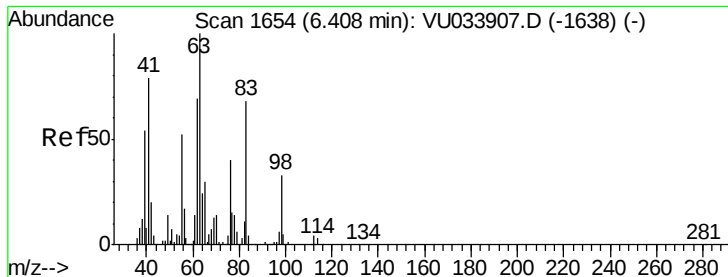


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 52.574 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

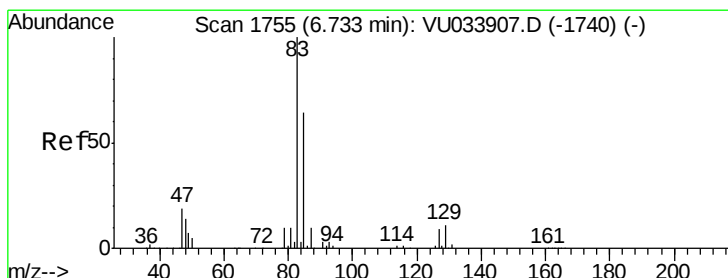
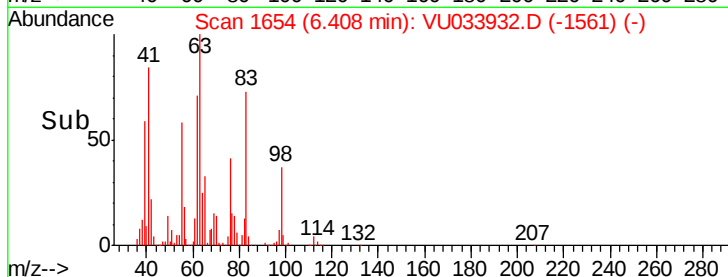
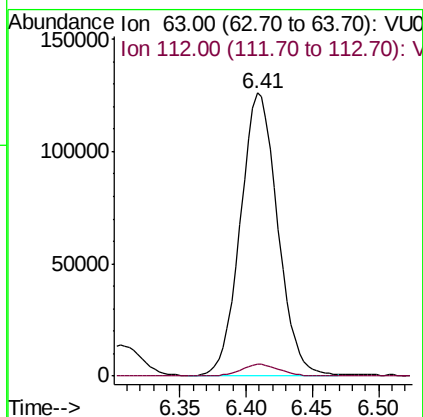
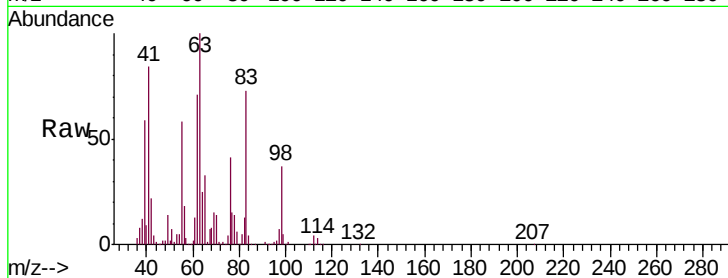
VSTD05052

Tgt Ion: 63 Resp: 244721

Ion Ratio Lower Upper

63 100

112 4.4 3.5 5.3



#38

Bromodichloromethane

Concen: 51.056 ug/L

RT: 6.74 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

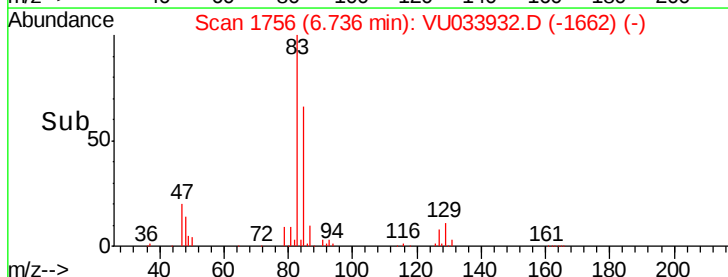
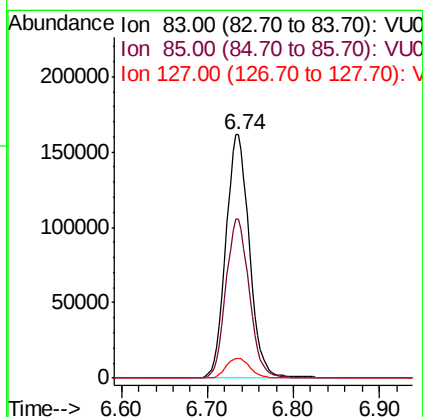
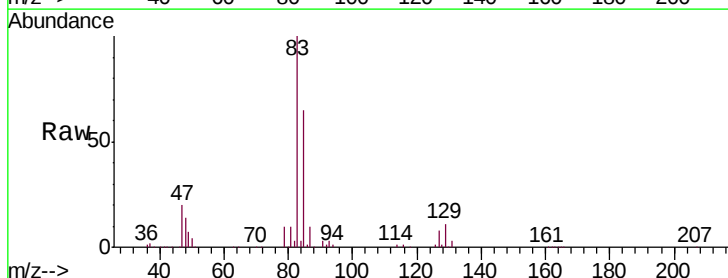
Tgt Ion: 83 Resp: 307092

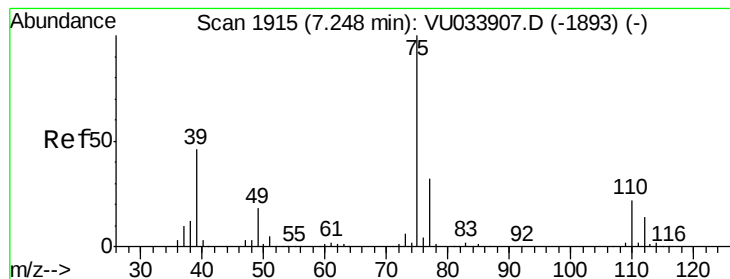
Ion Ratio Lower Upper

83 100

85 65.5 44.0 81.8

127 8.2 6.8 10.2



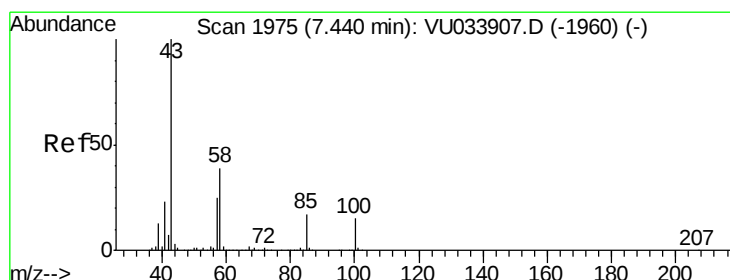
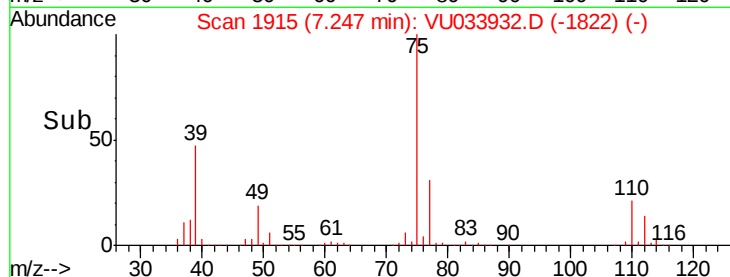
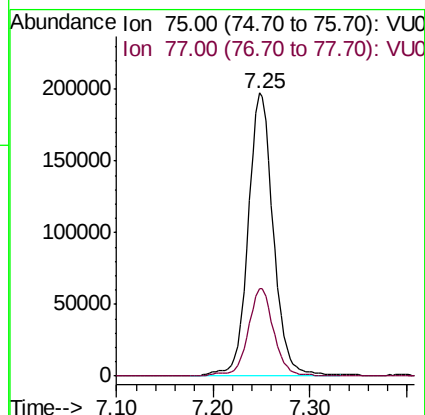
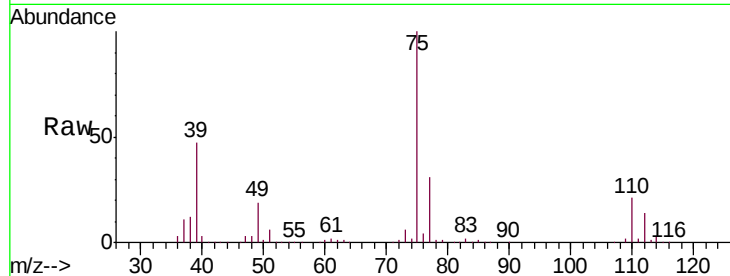


#39

cis-1,3-Dichloropropene
Concen: 51.739 ug/L
RT: 7.25 min Scan# 1915
Delta R.T. -0.00 min
Lab File: VU033932.D
Acq: 23 Aug 2019 10:41

Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

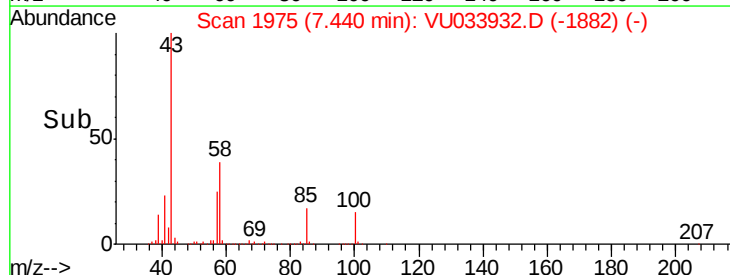
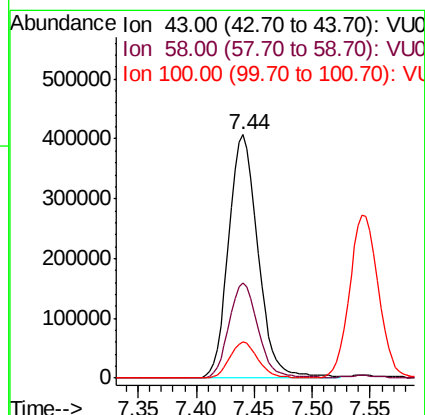
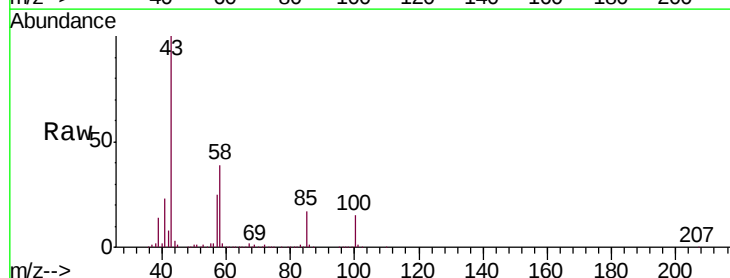
Tgt Ion: 75 Resp: 357960
Ion Ratio Lower Upper
75 100
77 30.9 21.8 40.4

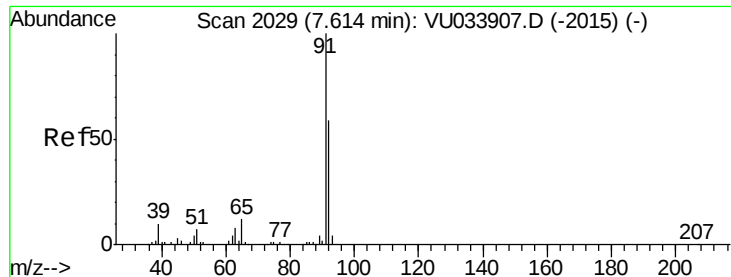


#40

4-Methyl-2-pentanone
Concen: 106.944 ug/L
RT: 7.44 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VU033932.D
Acq: 23 Aug 2019 10:41

Tgt Ion: 43 Resp: 712966
Ion Ratio Lower Upper
43 100
58 38.7 31.6 47.4
100 14.4 12.0 18.0





#42

Toluene

Concen: 53.311 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

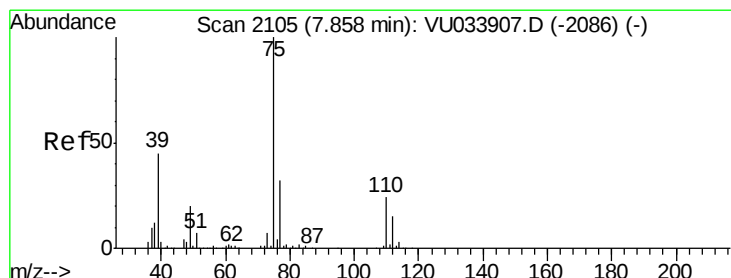
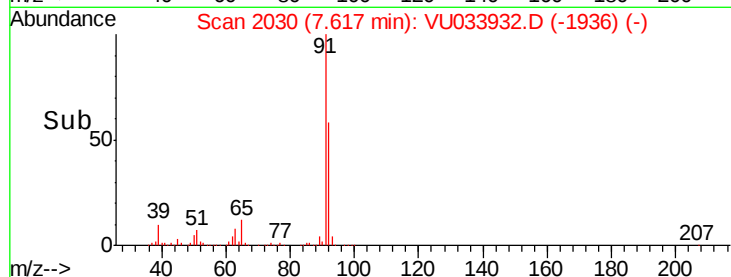
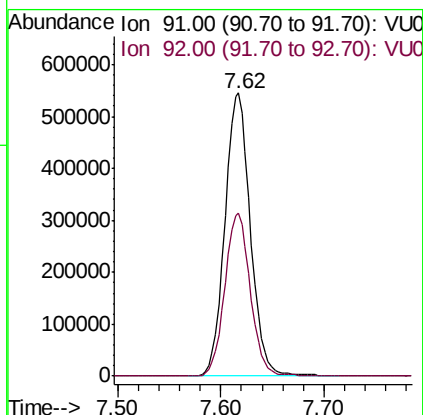
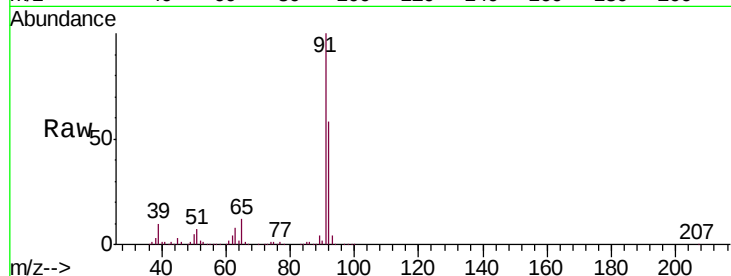
VSTD05052

Tgt Ion: 91 Resp: 938595

Ion Ratio Lower Upper

91 100

92 57.6 40.3 74.9



#44

trans-1,3-Dichloropropene

Concen: 51.696 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. -0.00 min

Lab File: VU033932.D

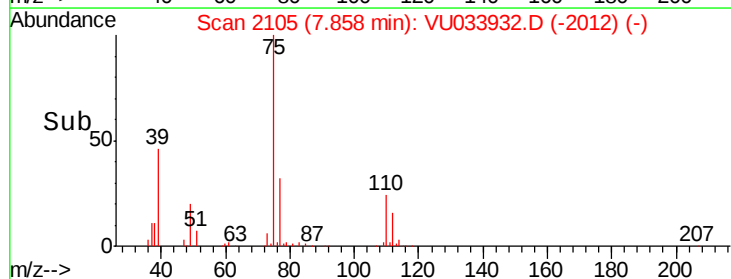
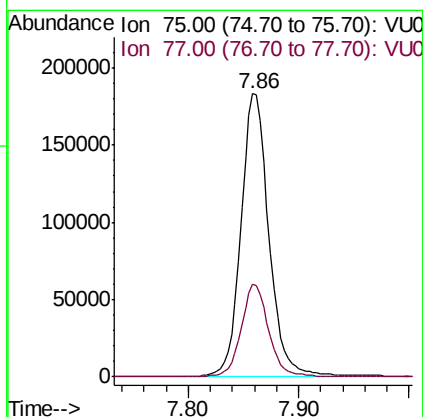
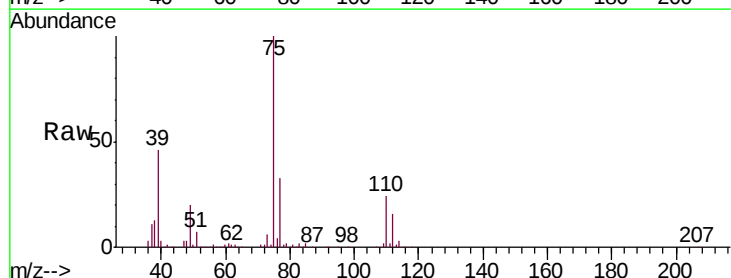
Acq: 23 Aug 2019 10:41

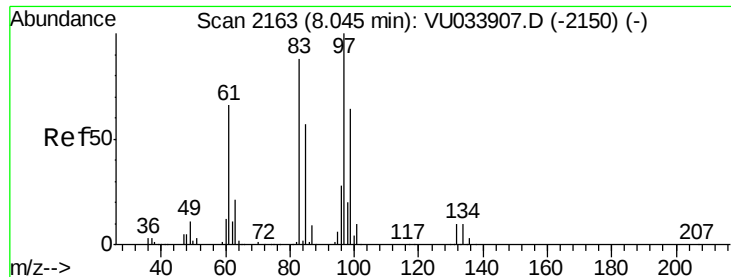
Tgt Ion: 75 Resp: 322300

Ion Ratio Lower Upper

75 100

77 32.6 22.3 41.3

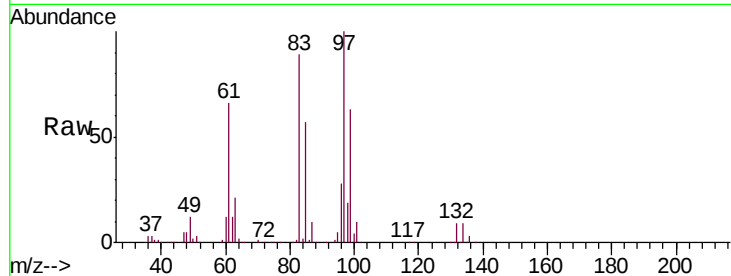




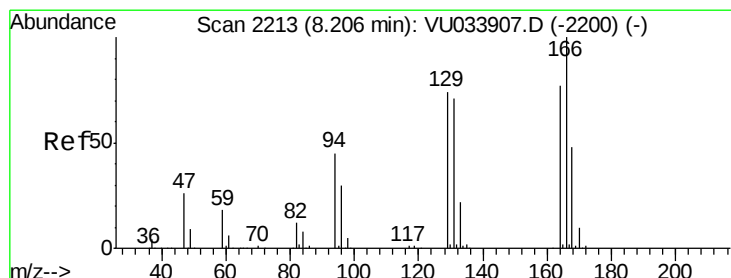
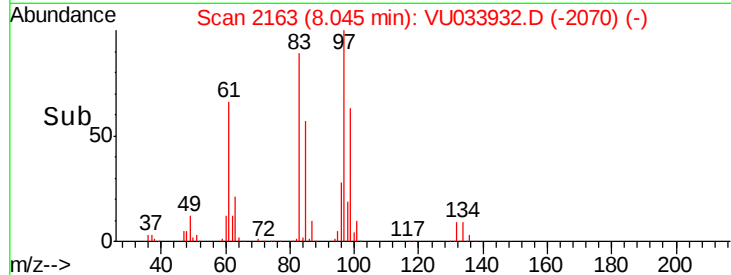
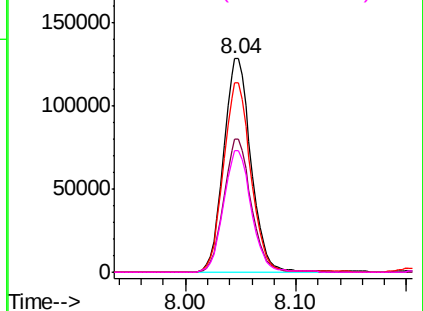
#45
 1,1,2-Trichloroethane
 Concen: 52.009 ug/L
 RT: 8.04 min Scan# 2163
 Delta R.T. -0.00 min
 Lab File: VU033932.D
 Acq: 23 Aug 2019 10:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

Tgt Ion:	97	Resp:	222120
Ion	Ratio	Lower	Upper
97	100		
99	62.6	44.2	82.2
83	88.9	61.2	113.6
85	57.1	39.0	72.4

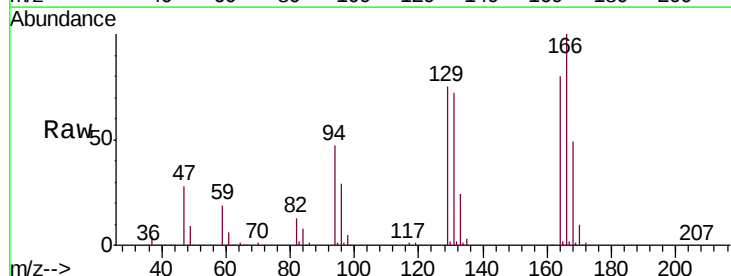


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

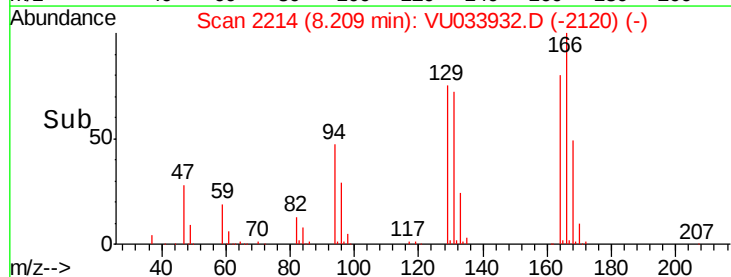
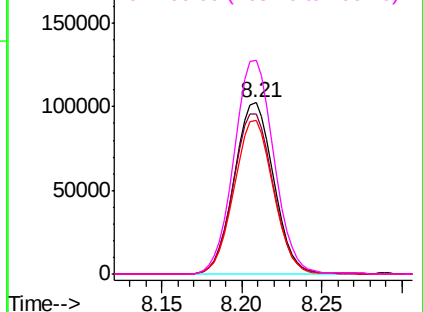


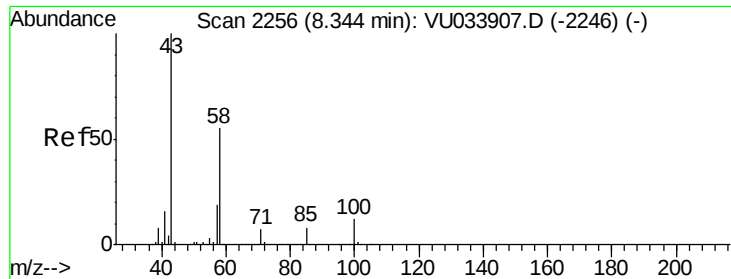
#46
 Tetrachloroethene
 Concen: 50.210 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. 0.00 min
 Lab File: VU033932.D
 Acq: 23 Aug 2019 10:41

Tgt Ion:	164	Resp:	172262
Ion	Ratio	Lower	Upper
164	100		
129	93.4	63.9	118.7
131	90.1	62.5	116.1
166	124.9	87.3	162.1



Abundance Ion 164.00 (163.70 to 164.70): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 131.00 (130.70 to 131.70): V
 Ion 166.00 (165.70 to 166.70): V

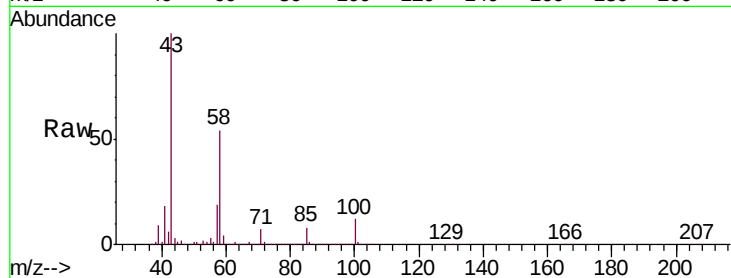




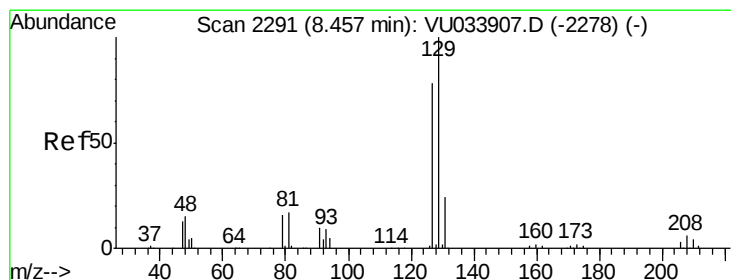
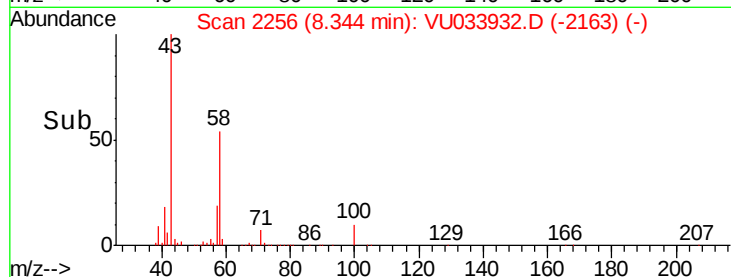
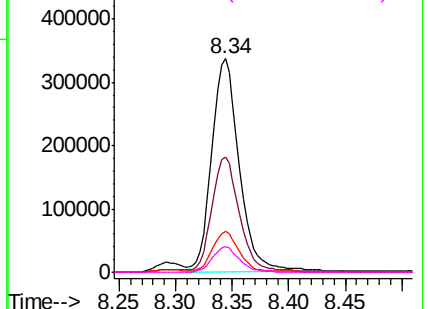
#48
2-Hexanone
Concen: 109.147 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. -0.00 min
Lab File: VU033932.D
Acq: 23 Aug 2019 10:41

Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

Tgt Ion:	43	Resp:	565020
Ion	Ratio	Lower	Upper
43	100		
58	54.0	44.3	66.5
57	18.6	15.3	22.9
100	11.8	9.4	14.2

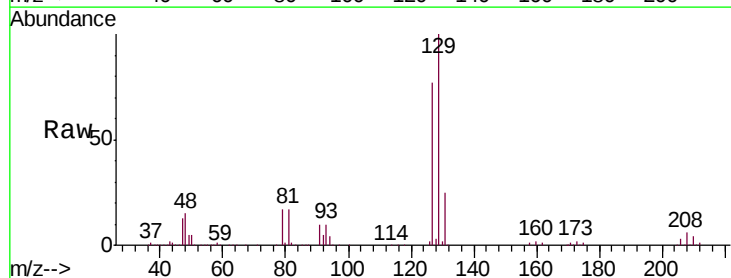


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

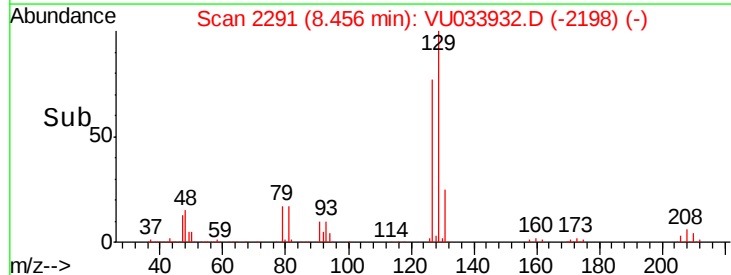
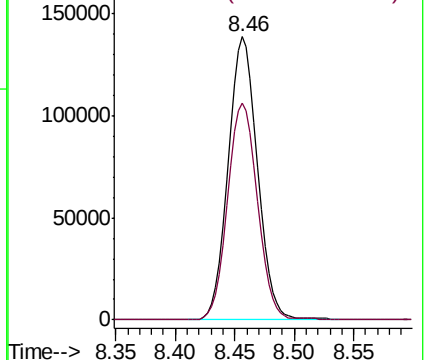


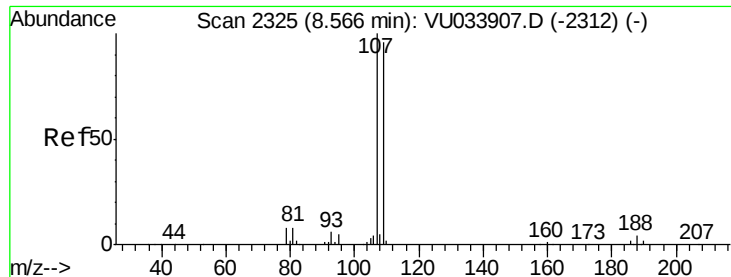
#49
Dibromochloromethane
Concen: 50.105 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU033932.D
Acq: 23 Aug 2019 10:41

Tgt Ion:	129	Resp:	237381
Ion	Ratio	Lower	Upper
129	100		
127	76.7	54.5	101.3



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

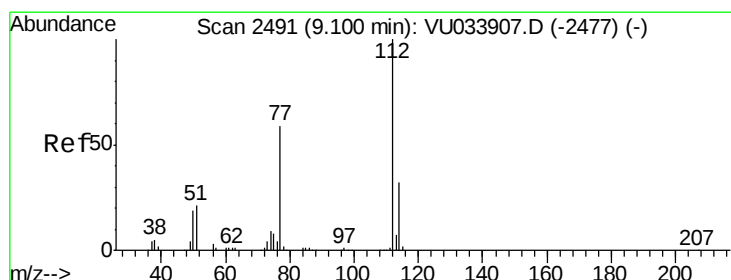
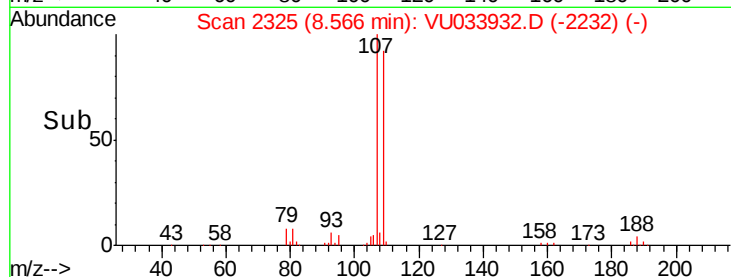
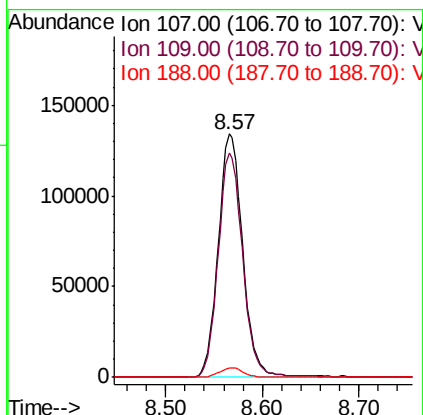
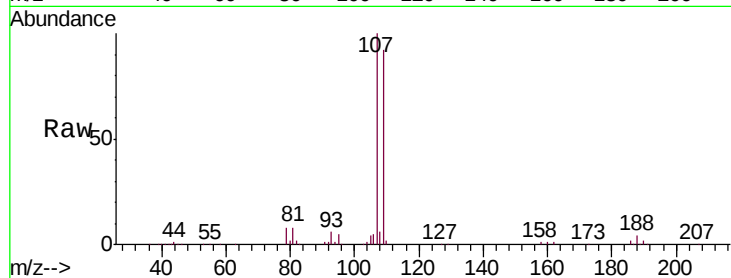




#50
1,2-Dibromoethane
Concen: 51.730 ug/L
RT: 8.57 min Scan# 2325
Delta R.T. -0.00 min
Lab File: VU033932.D
Acq: 23 Aug 2019 10:41

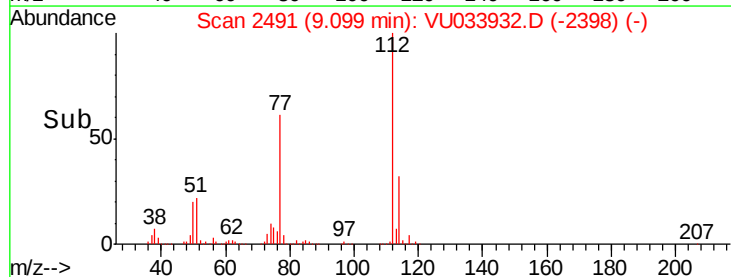
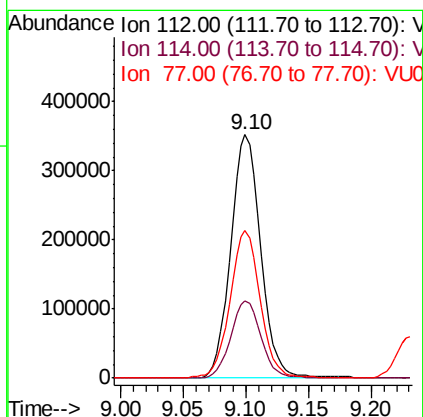
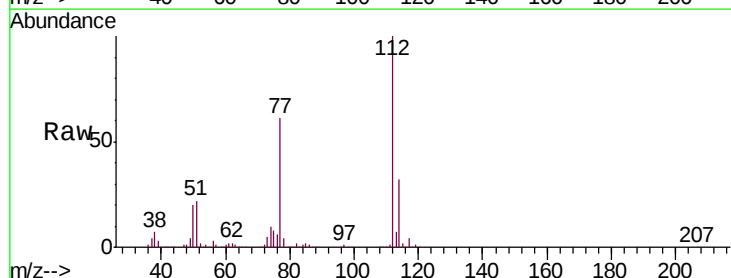
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

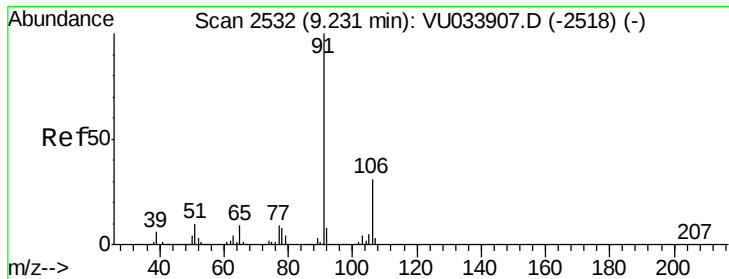
Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.2	66.9	124.3
188	3.8	3.0	4.4



#51
Chlorobenzene
Concen: 50.181 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. -0.00 min
Lab File: VU033932.D
Acq: 23 Aug 2019 10:41

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.7	22.5	41.7
77	60.8	47.3	70.9





#52

Ethylbenzene

Concen: 52.445 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

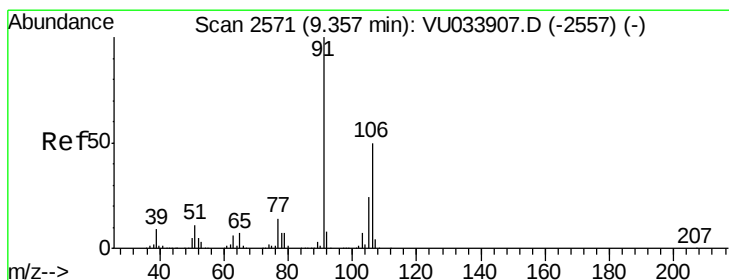
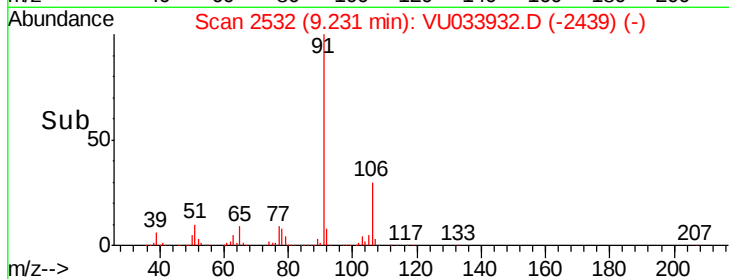
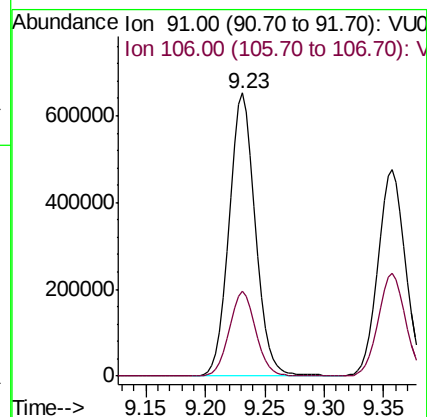
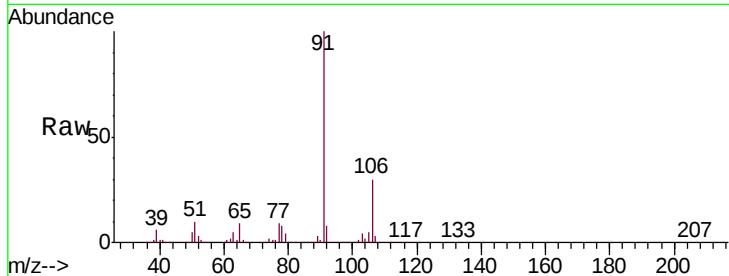
VSTD05052

Tgt Ion: 91 Resp: 997339

Ion Ratio Lower Upper

91 100

106 30.0 21.4 39.8



#53

m,p-Xylene

Concen: 53.929 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033932.D

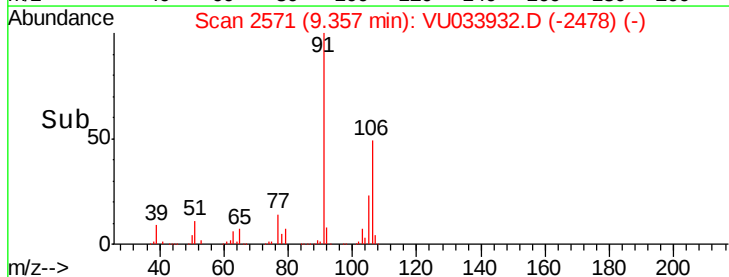
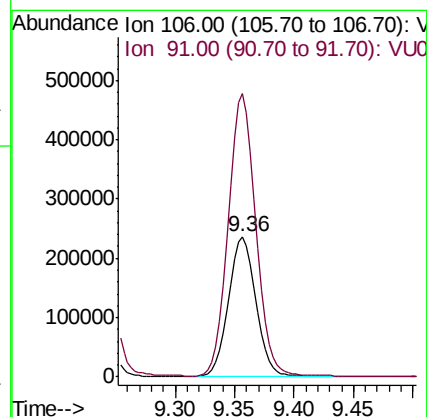
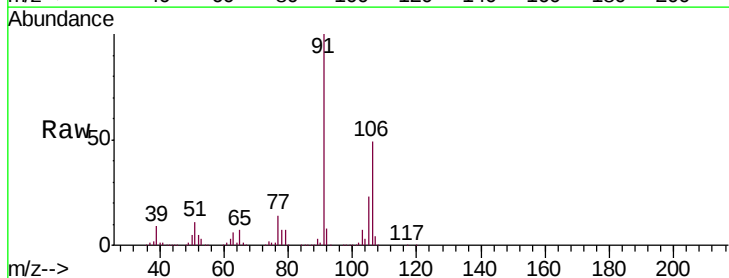
Acq: 23 Aug 2019 10:41

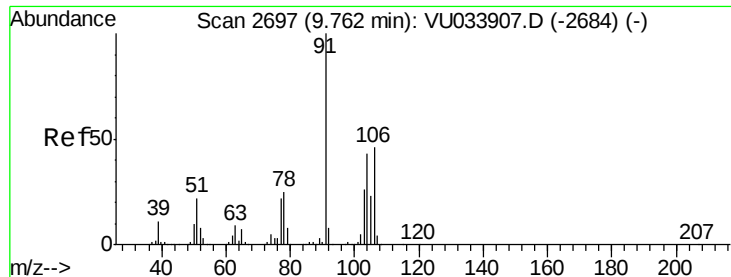
Tgt Ion: 106 Resp: 377926

Ion Ratio Lower Upper

106 100

91 202.1 142.2 264.0





#54

o-xylene

Concen: 52.792 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

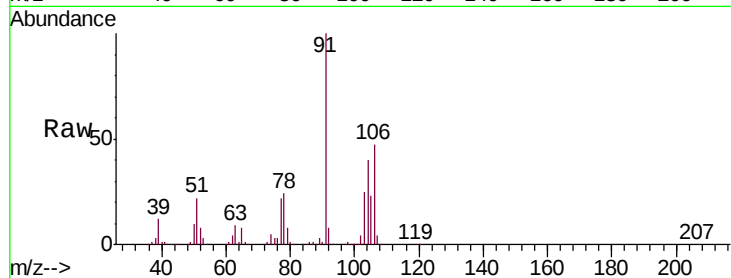
VSTD05052

Tgt Ion:106 Resp: 364677

Ion Ratio Lower Upper

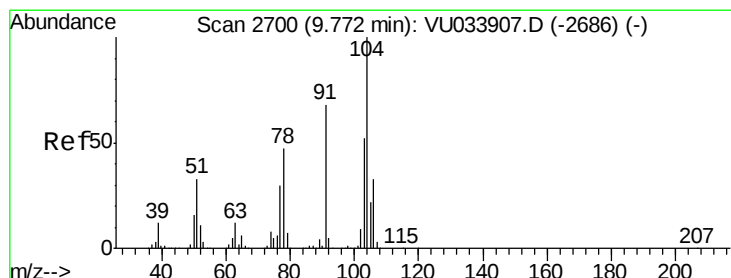
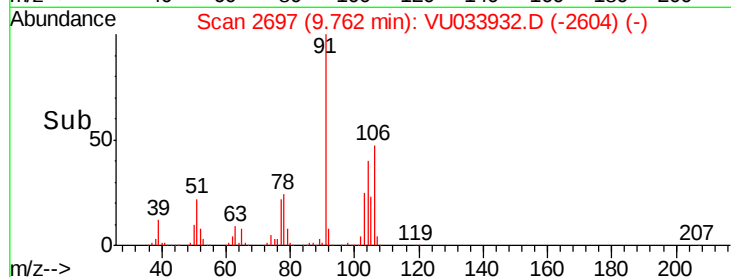
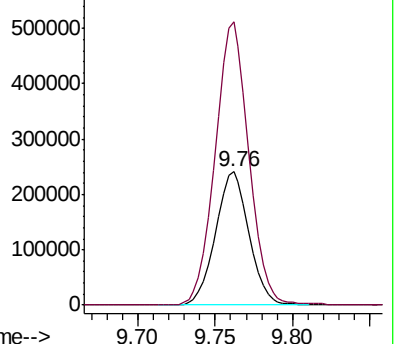
106 100

91 211.9 148.6 276.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 55.027 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU033932.D

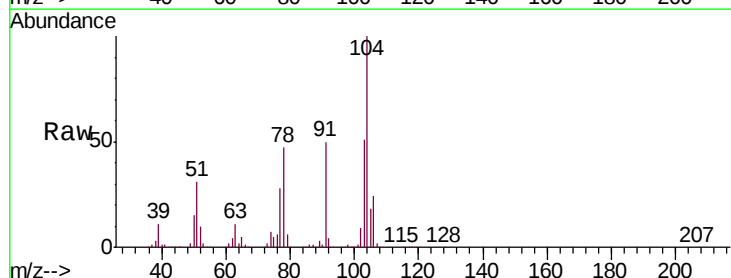
Acq: 23 Aug 2019 10:41

Tgt Ion:104 Resp: 647236

Ion Ratio Lower Upper

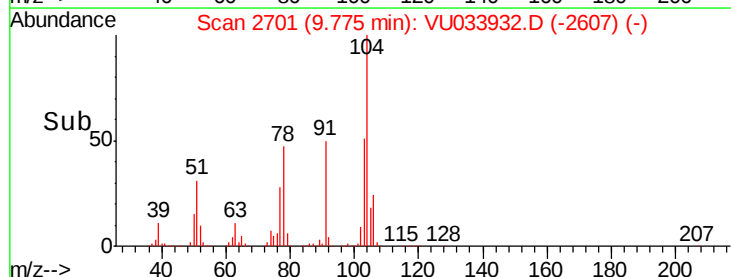
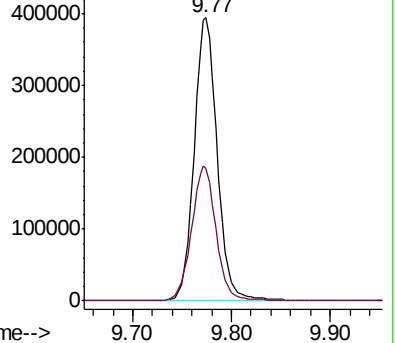
104 100

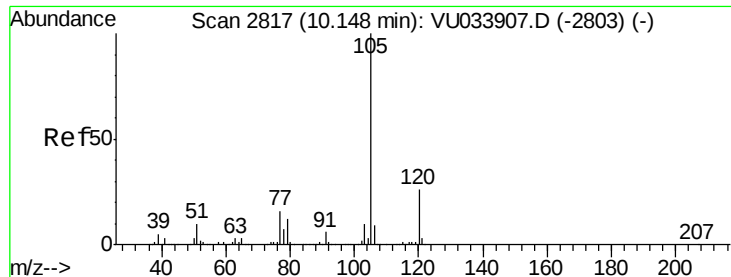
78 46.5 32.8 61.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 53.280 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. -0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

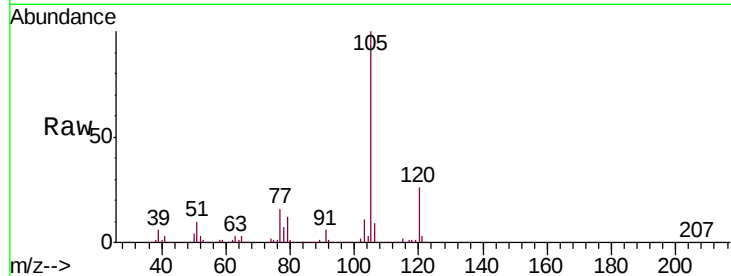
Tgt Ion: 105 Resp: 956387

Ion Ratio Lower Upper

105 100

120 25.9 21.2 31.8

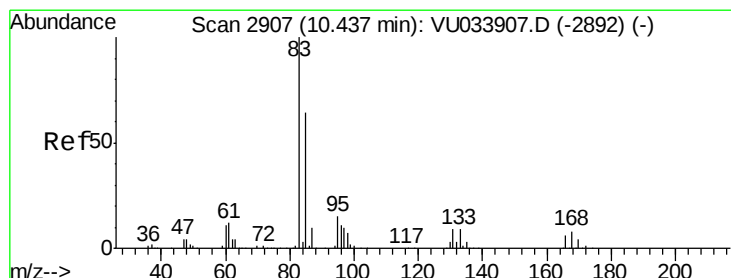
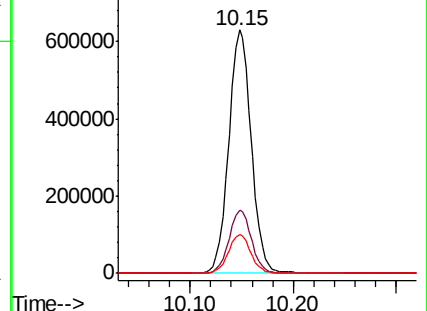
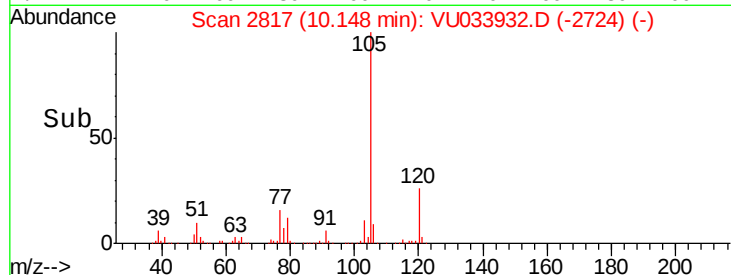
77 16.0 12.6 18.8



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: 52.016 ug/L

RT: 10.44 min Scan# 2907

Delta R.T. -0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

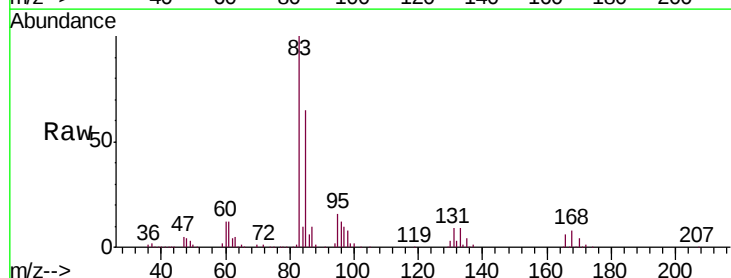
Tgt Ion: 83 Resp: 385028

Ion Ratio Lower Upper

83 100

85 65.2 46.3 85.9

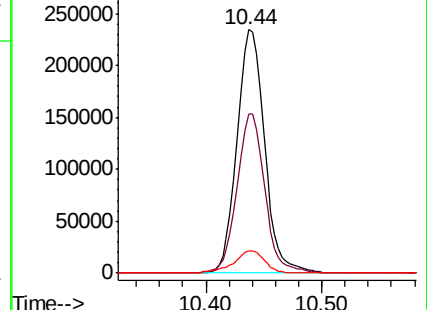
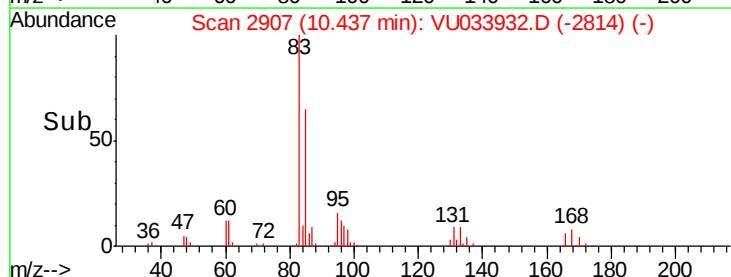
131 9.3 7.9 11.9

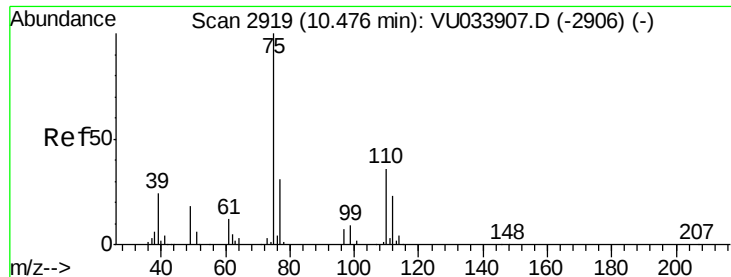


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

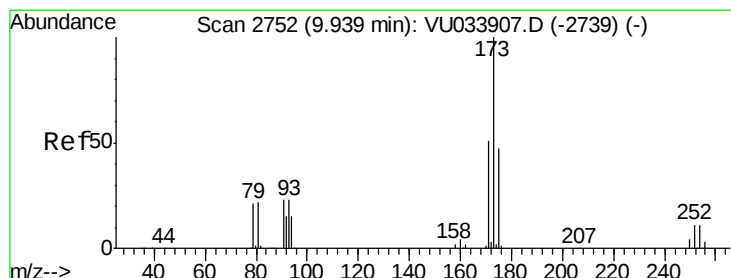
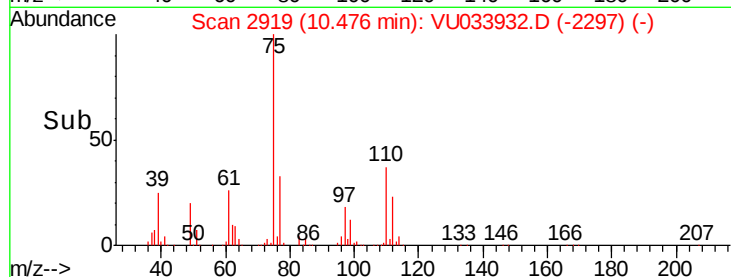
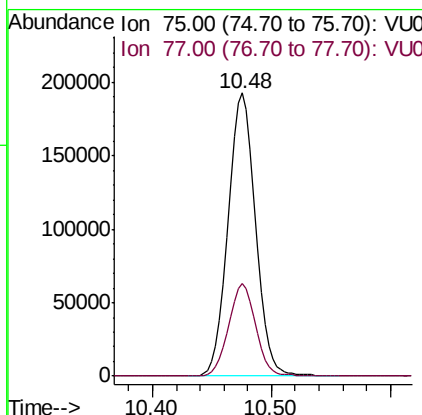
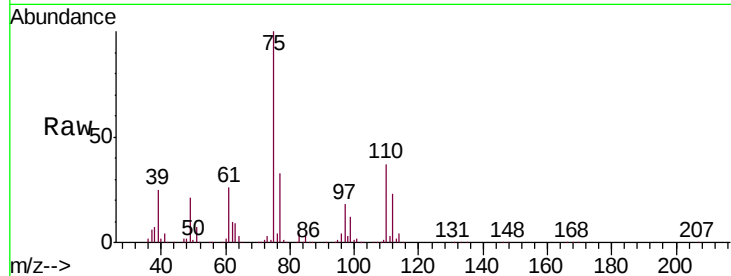




#59
 1,2,3-Trichloropropane
 Concen: 51.782 ug/L
 RT: 10.48 min Scan# 2919
 Delta R.T. -0.00 min
 Lab File: VU033932.D
 Acq: 23 Aug 2019 10:41

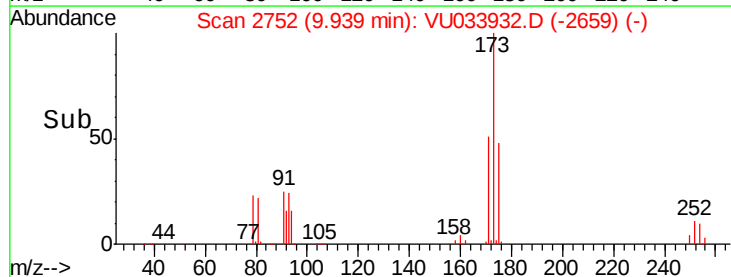
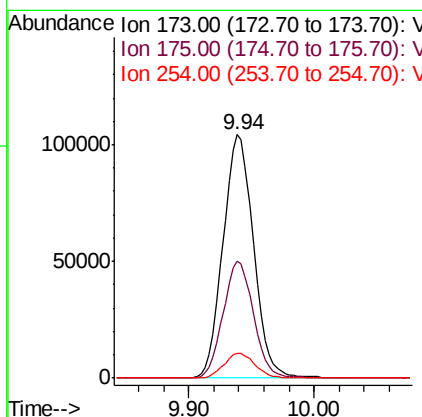
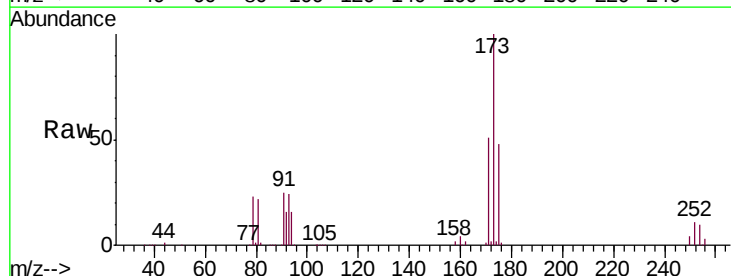
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

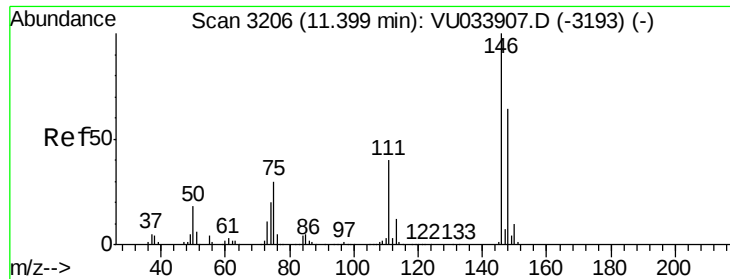
Tgt Ion: 75 Resp: 308044
 Ion Ratio Lower Upper
 75 100
 77 32.4 25.8 38.8



#61
 Bromoform
 Concen: 48.576 ug/L
 RT: 9.94 min Scan# 2752
 Delta R.T. -0.00 min
 Lab File: VU033932.D
 Acq: 23 Aug 2019 10:41

Tgt Ion: 173 Resp: 176328
 Ion Ratio Lower Upper
 173 100
 175 47.9 39.4 59.2
 254 10.3 8.5 12.7





#62

1,3-Dichlorobenzene

Concen: 50.447 ug/L

RT: 11.40 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

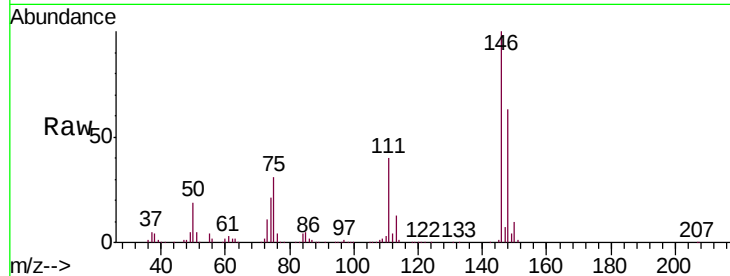
Tgt Ion:146 Resp: 455992

Ion Ratio Lower Upper

146 100

111 39.9 27.8 51.6

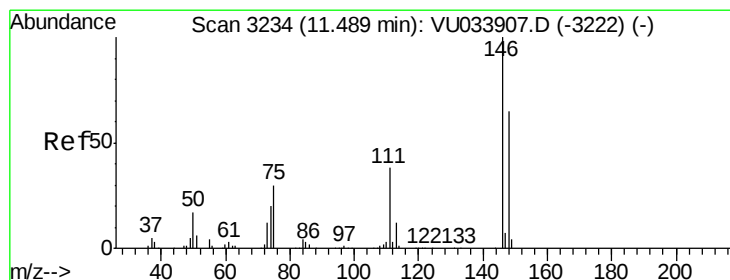
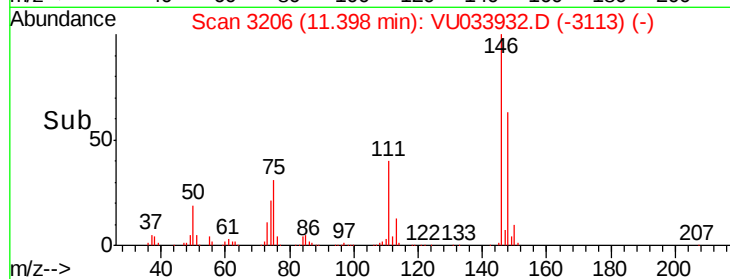
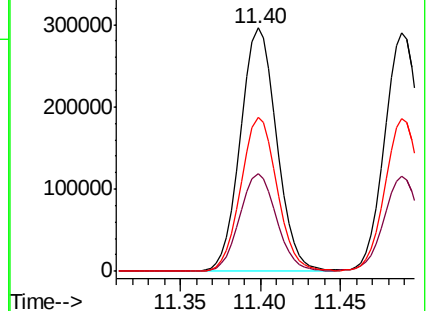
148 63.2 45.1 83.9



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



#63

1,4-Dichlorobenzene

Concen: 49.195 ug/L

RT: 11.49 min Scan# 3234

Delta R.T. -0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

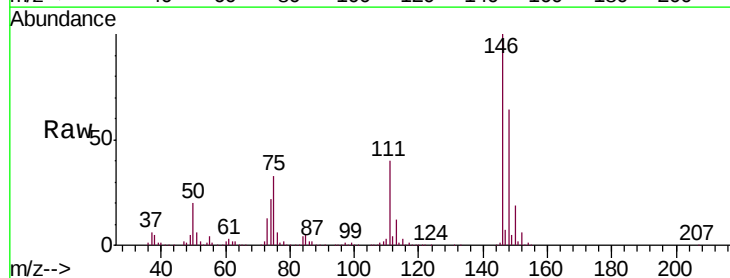
Tgt Ion:146 Resp: 460768

Ion Ratio Lower Upper

146 100

111 39.9 26.7 49.5

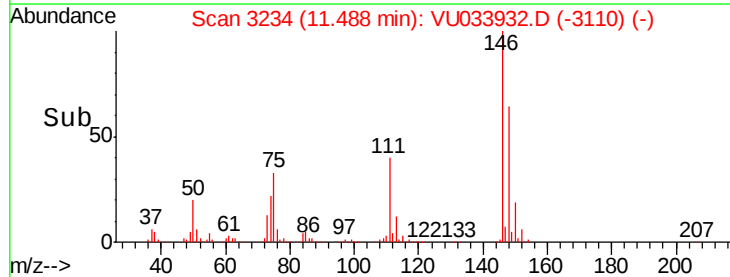
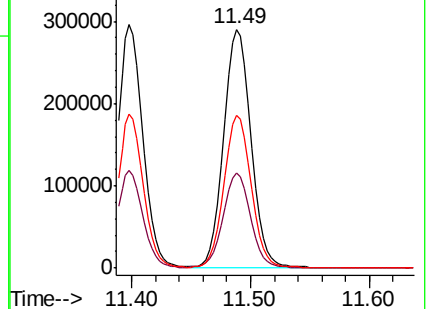
148 64.1 43.5 80.9

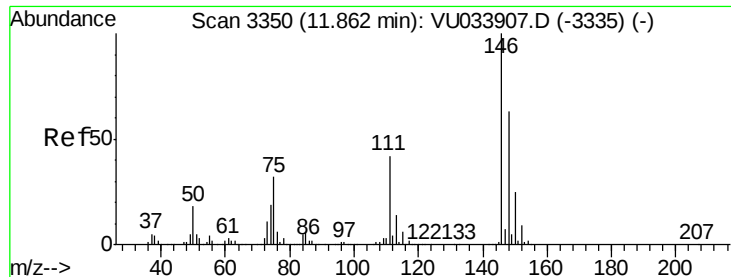


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

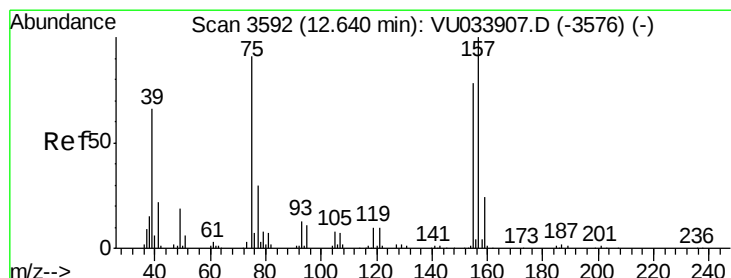
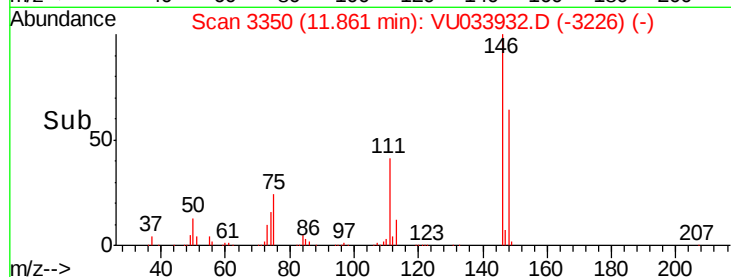
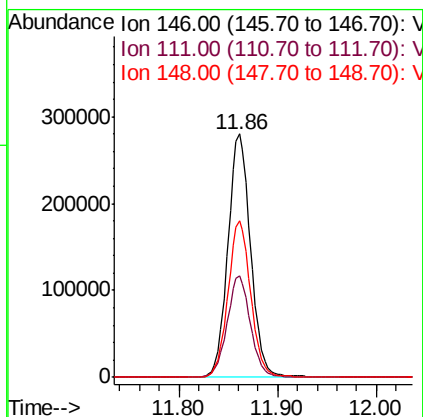
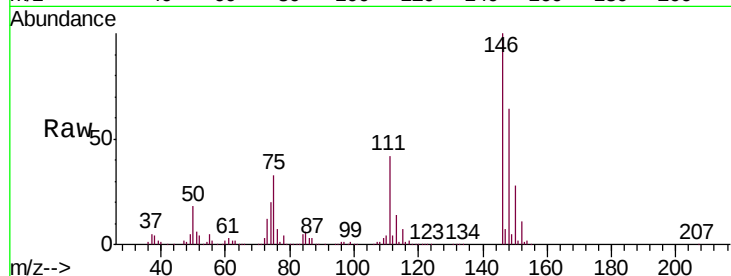




#65
 1,2-Dichlorobenzene
 Concen: 50.097 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. -0.00 min
 Lab File: VU033932.D
 Acq: 23 Aug 2019 10:41

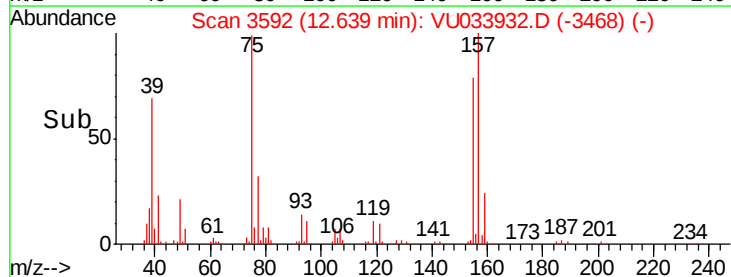
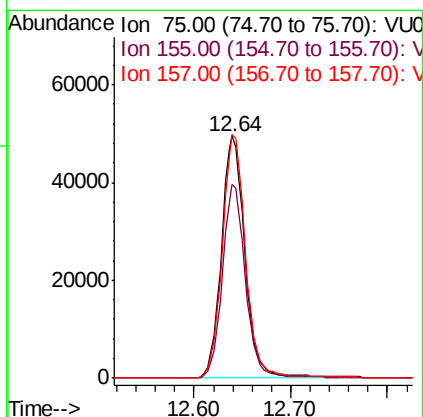
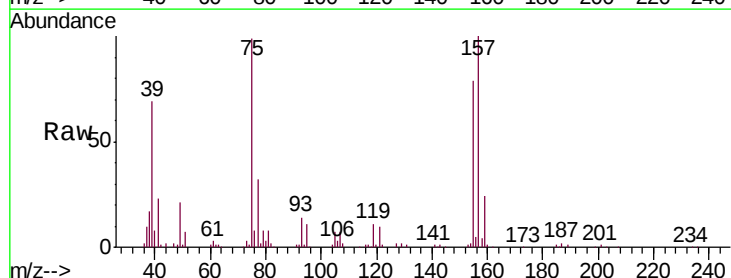
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

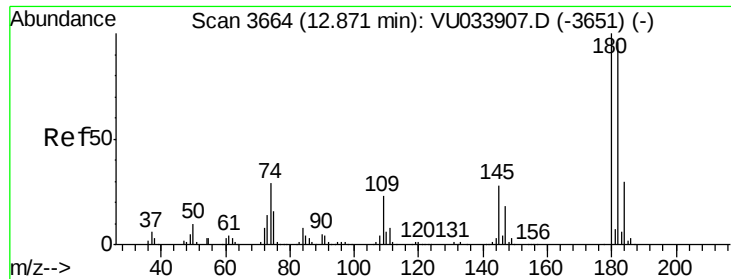
Tgt Ion: 146 Resp: 451764
 Ion Ratio Lower Upper
 146 100
 111 41.6 33.1 49.7
 148 64.1 50.8 76.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 50.484 ug/L
 RT: 12.64 min Scan# 3592
 Delta R.T. -0.00 min
 Lab File: VU033932.D
 Acq: 23 Aug 2019 10:41

Tgt Ion: 75 Resp: 83494
 Ion Ratio Lower Upper
 75 100
 155 80.0 64.3 96.5
 157 100.7 83.4 125.2

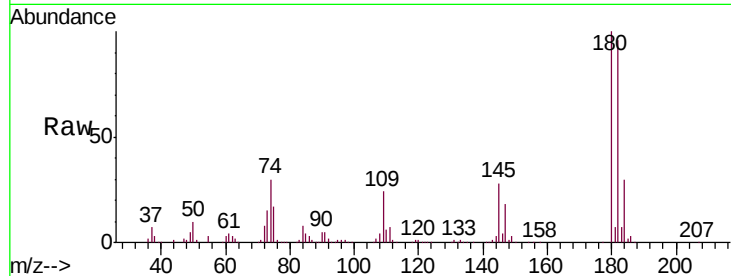




#67
 1,3,5-Trichlorobenzene
 Concen: 48.487 ug/L
 RT: 12.87 min Scan# 3664
 Delta R.T. -0.00 min
 Lab File: VU033932.D
 Acq: 23 Aug 2019 10:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.4	114.6
184	30.3	24.1	36.1
145	28.3	22.4	33.6



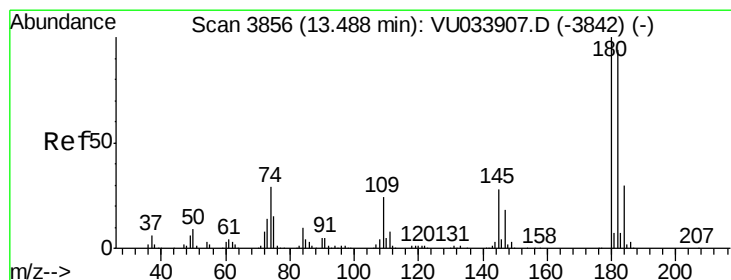
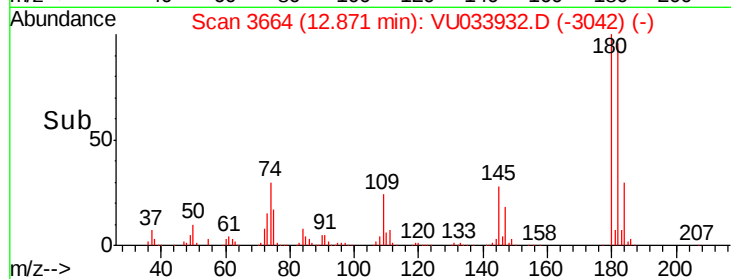
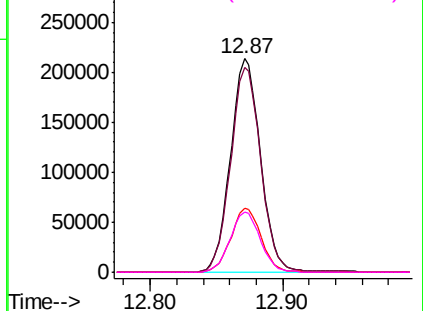
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

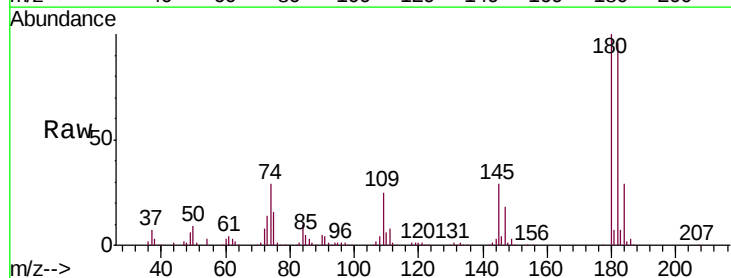
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 47.651 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. -0.00 min
 Lab File: VU033932.D
 Acq: 23 Aug 2019 10:41

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.3	76.8	115.2
145	28.7	22.8	34.2

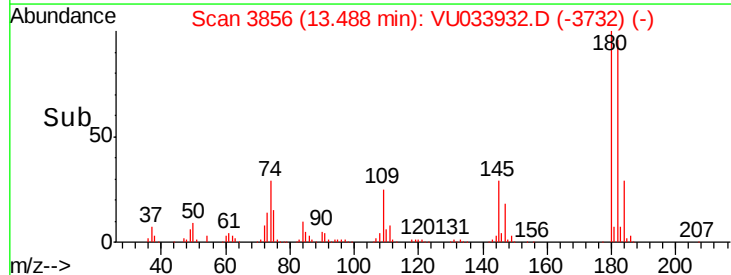
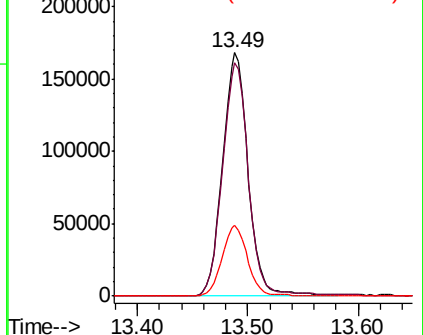


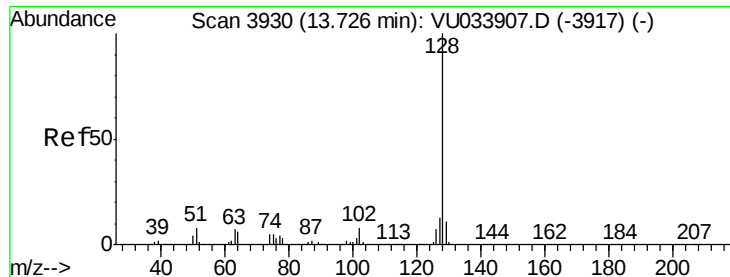
Abundance

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: 48.536 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. 0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

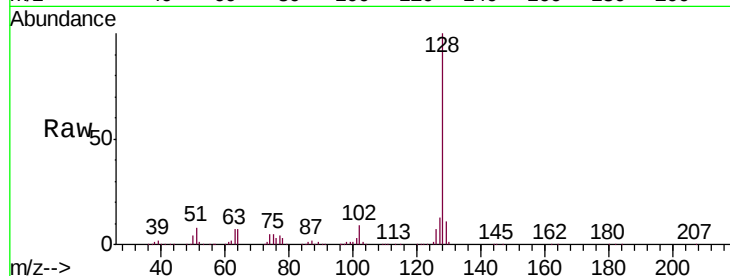
Tgt Ion:128 Resp: 825555

Ion Ratio Lower Upper

128 100

127 13.1 10.1 15.1

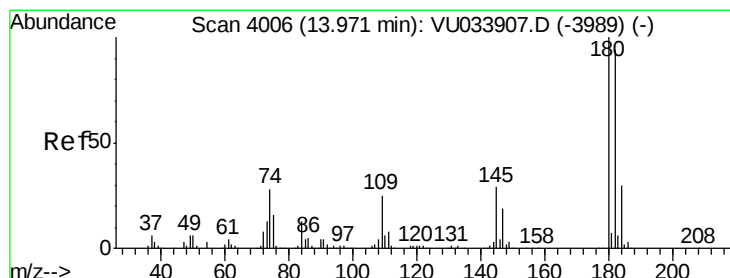
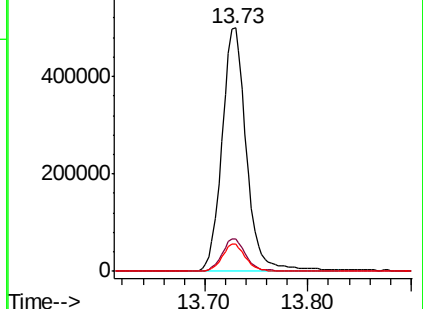
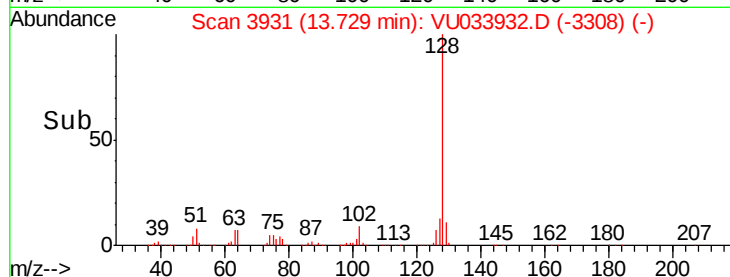
129 10.9 8.3 12.5



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: 49.986 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. 0.00 min

Lab File: VU033932.D

Acq: 23 Aug 2019 10:41

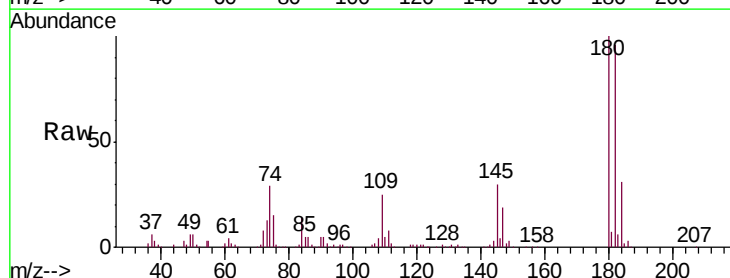
Tgt Ion:180 Resp: 300938

Ion Ratio Lower Upper

180 100

182 95.7 76.7 115.1

145 30.7 23.9 35.9



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

