

Data File : VU033821.D
Acq On : 15 Aug 2019 19:42
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

Quant Time: Aug 16 02:58:16 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081619WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 16 02:54:51 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	405590	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	400976	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	211138	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	169633	46.49	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.98%
7) Chloroethane-d5	1.67	69	145692	42.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	85.38%
11) 1,1-Dichloroethene-d2	2.26	63	295074	48.38	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.76%
21) 2-Butanone-d5	4.15	46	202790	105.97	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	105.97%
24) Chloroform-d	4.62	84	281820	47.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.96%
26) 1,2-Dichloroethane-d4	5.29	65	179561	48.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.74%
32) Benzene-d6	5.32	84	560117	50.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.28%
36) 1,2-Dichloropropane-d6	6.31	67	178862	49.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.24%
41) Toluene-d8	7.55	98	529758	51.03	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.06%
43) trans-1,3-Dichloropropene-	7.83	79	83887	49.40	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.80%
47) 2-Hexanone-d5	8.29	63	148373	110.63	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	110.63%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	251998	50.07	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.14%
64) 1,2-Dichlorobenzene-d4	11.84	152	207327	49.27	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.54%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	189684	47.700	ug/L	100
3) Chloromethane	1.32	50	196951	48.156	ug/L	100
5) Vinyl chloride	1.39	62	217841	47.819	ug/L	99
6) Bromomethane	1.62	94	148038	42.981	ug/L	98
8) Chloroethane	1.69	64	132788	42.077	ug/L	95
9) Trichlorofluoromethane	1.87	101	281727	46.633	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	139029	48.073	ug/L	99
12) 1,1-Dichloroethene	2.27	96	132616	47.310	ug/L	99
13) Acetone	2.31	43	146594	77.943	ug/L	99
14) Carbon disulfide	2.46	76	412993	46.723	ug/L	99
15) Methyl Acetate	2.60	43	154296	49.747	ug/L	99
16) Methylene chloride	2.68	84	155845	47.978	ug/L	97
17) trans-1,2-Dichloroethene	2.96	96	140601	48.117	ug/L	99
18) Methyl tert-butyl Ether	2.98	73	430731	50.510	ug/L	99
19) 1,1-Dichloroethane	3.42	63	272469	48.456	ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	158072	50.007	ug/L	96
22) 2-Butanone	4.24	43	208078	96.135	ug/L	98

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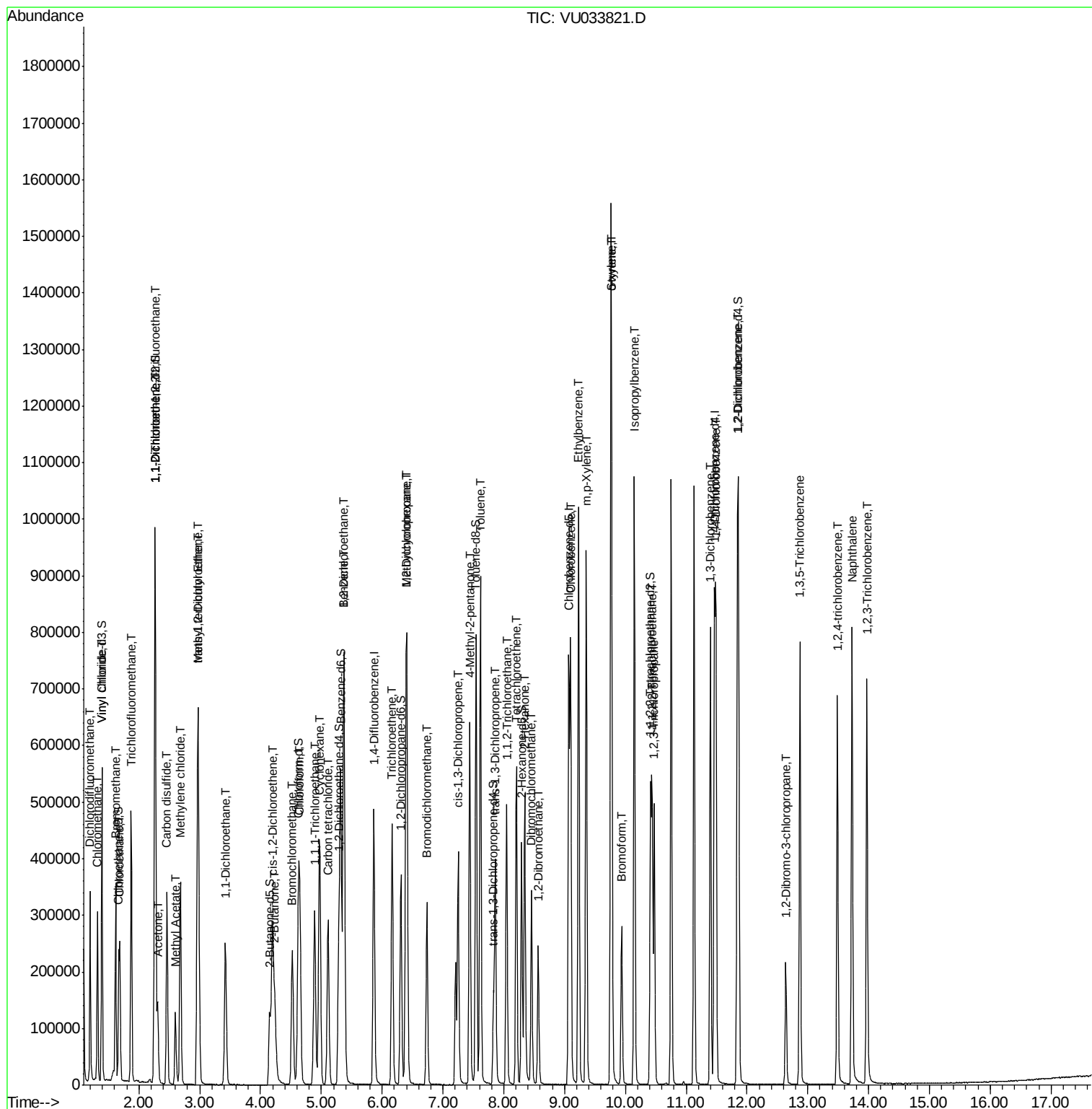
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	83440	48.415	ug/L	95
25) Chloroform	4.65	83	279948	47.906	ug/L	97
27) 1,2-Dichloroethane	5.38	62	220027	49.663	ug/L	100
29) Cyclohexane	4.97	56	223447	52.012	ug/L	98
30) 1,1,1-Trichloroethane	4.89	97	238005	49.305	ug/L	99
31) Carbon tetrachloride	5.11	117	210642	47.952	ug/L	100
33) Benzene	5.37	78	608088	50.203	ug/L	100
34) Trichloroethene	6.16	95	156257	48.337	ug/L	100
35) Methylcyclohexane	6.40	83	235973	49.849	ug/L	99
37) 1,2-Dichloropropane	6.41	63	163702	49.355	ug/L	100
38) Bromodichloromethane	6.74	83	208264	48.496	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	246599	51.012	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	405232	104.076	ug/L	100
42) Toluene	7.62	91	658452	51.423	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	222678	50.123	ug/L	100
45) 1,1,2-Trichloroethane	8.05	97	152526	48.993	ug/L	99
46) Tetrachloroethene	8.21	164	125382	48.379	ug/L	97
48) 2-Hexanone	8.34	43	318173	104.214	ug/L	99
49) Dibromochloromethane	8.46	129	172321	49.020	ug/L	98
50) 1,2-Dibromoethane	8.57	107	164632	49.666	ug/L	98
51) Chlorobenzene	9.10	112	415655	49.147	ug/L	99
52) Ethylbenzene	9.23	91	698343	51.474	ug/L	100
53) m,p-Xylene	9.36	106	263080	51.805	ug/L	97
54) o-xylene	9.76	106	259742	52.786	ug/L	99
55) Styrene	9.77	104	452009	53.611	ug/L	100
56) Isopropylbenzene	10.15	105	674829	52.451	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	251486	49.909	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	201023	50.036	ug/L	98
61) Bromoform	9.94	173	128716	48.949	ug/L	98
62) 1,3-Dichlorobenzene	11.40	146	326695	49.308	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	331565	48.340	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	334256	50.327	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	55486	50.245	ug/L	99
67) 1,3,5-Trichlorobenzene	12.87	180	247853	48.497	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	217900	52.069	ug/L	99
69) Naphthalene	13.73	128	653590	56.587	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	232131	53.445	ug/L	99

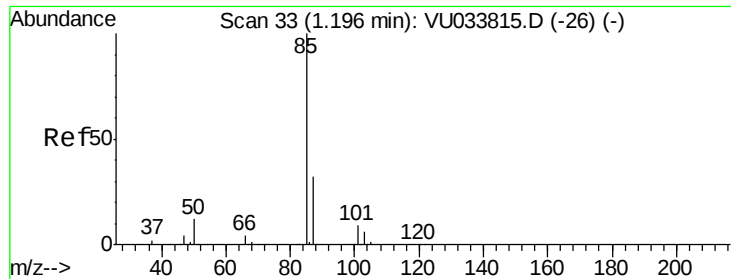
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 47.700 ug/L

RT: 1.20 min Scan# 33

Delta R.T. 0.00 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

Instrument :

MSVOA_U

ClientSampleId :

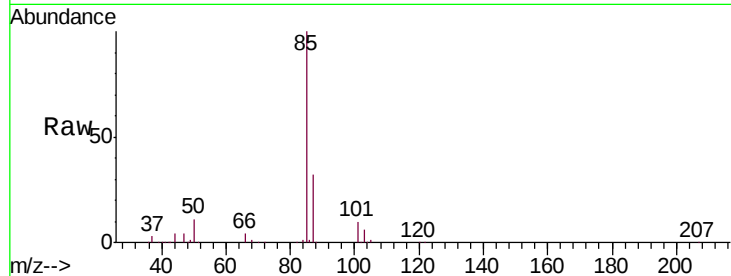
VSTD05044

Tgt Ion: 85 Resp: 189684

Ion Ratio Lower Upper

85 100

87 32.8 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU033821.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033821.D (-1) (-)

1.20

200000

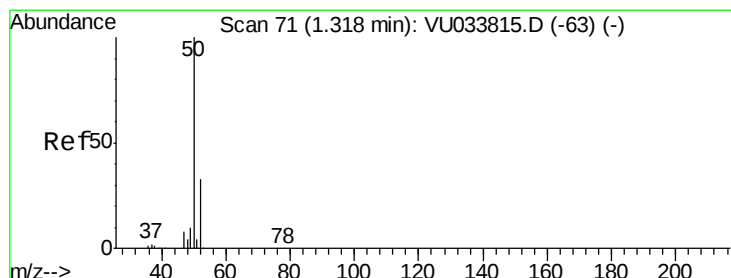
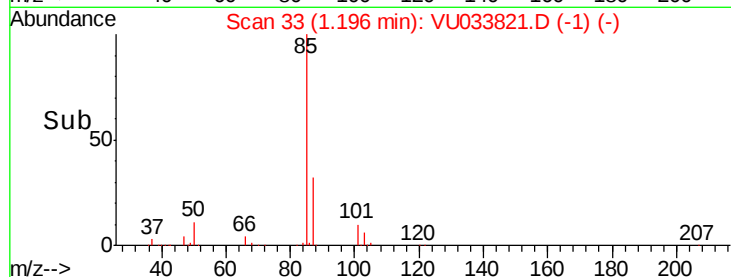
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 48.156 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033821.D

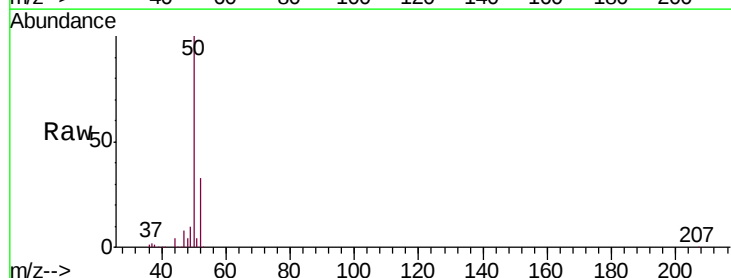
Acq: 15 Aug 2019 19:42

Tgt Ion: 50 Resp: 196951

Ion Ratio Lower Upper

50 100

52 33.2 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU033821.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033821.D (-1) (-)

1.32

200000

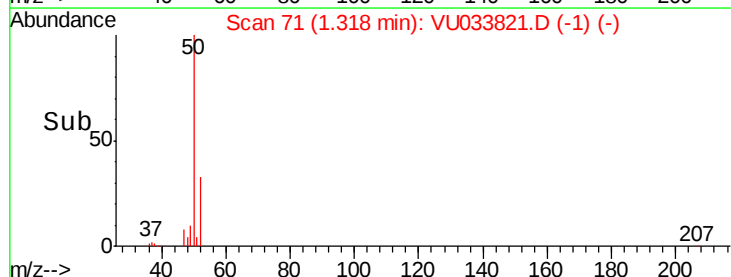
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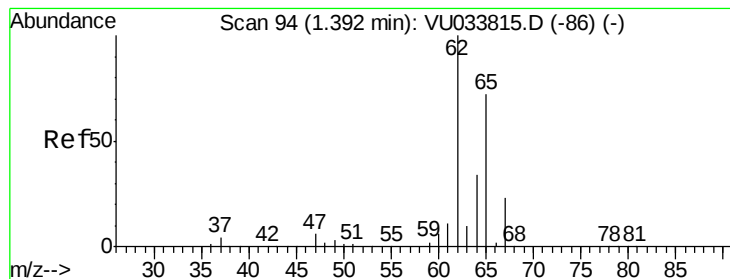
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 47.819 ug/L

RT: 1.39 min Scan# 94

Delta R.T. 0.00 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

Instrument :

MSVOA_U

ClientSampleId :

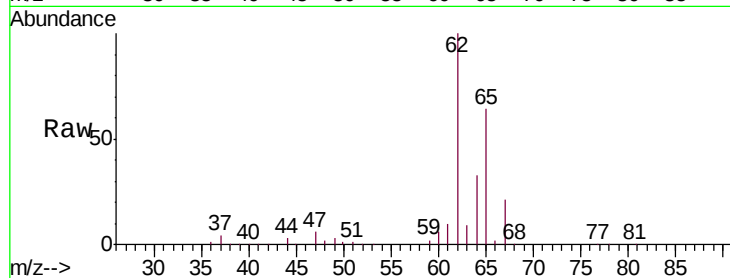
VSTD05044

Tgt Ion: 62 Resp: 217841

Ion Ratio Lower Upper

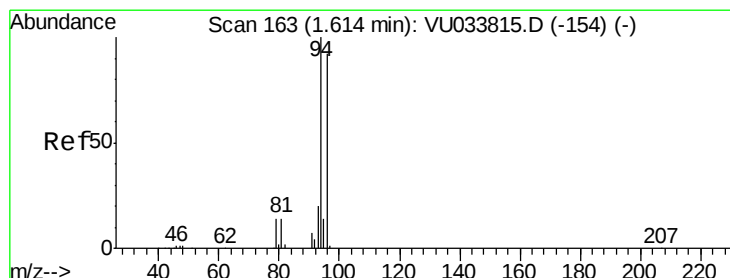
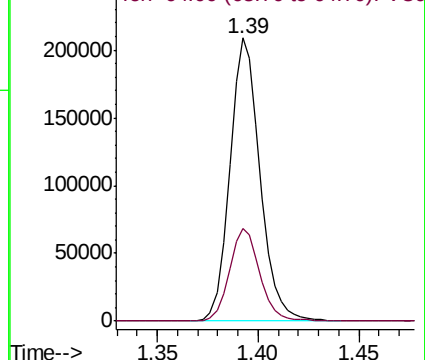
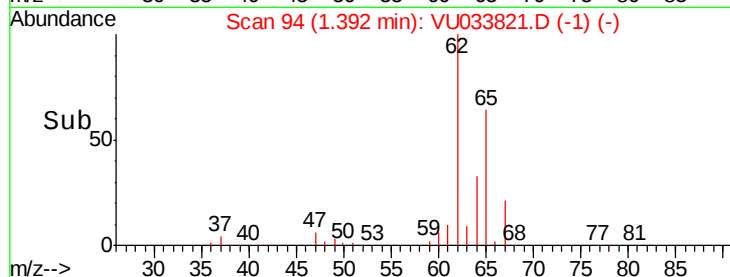
62 100

64 32.9 23.3 43.3



Abundance Ion 62.00 (61.70 to 62.70): VU033821.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VU033821.D (-1) (-)



#6

Bromomethane

Concen: 42.981 ug/L

RT: 1.62 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU033821.D

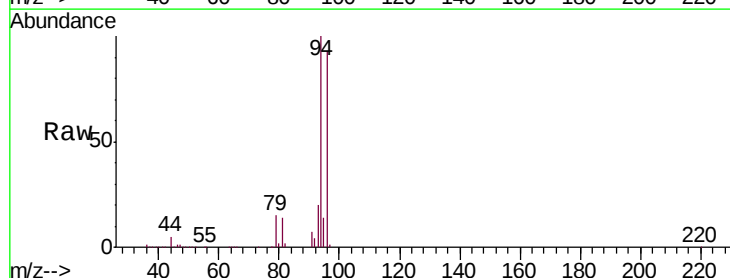
Acq: 15 Aug 2019 19:42

Tgt Ion: 94 Resp: 148038

Ion Ratio Lower Upper

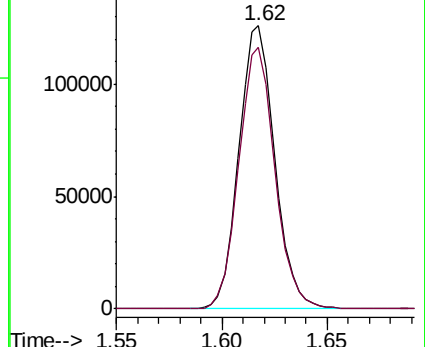
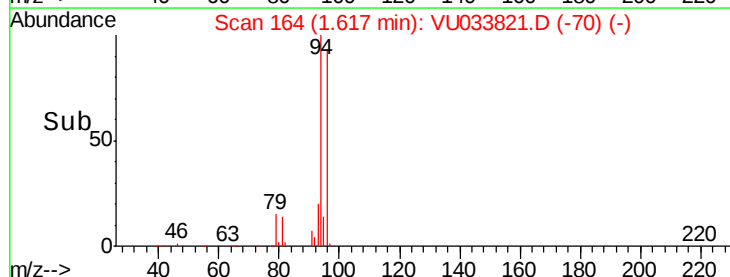
94 100

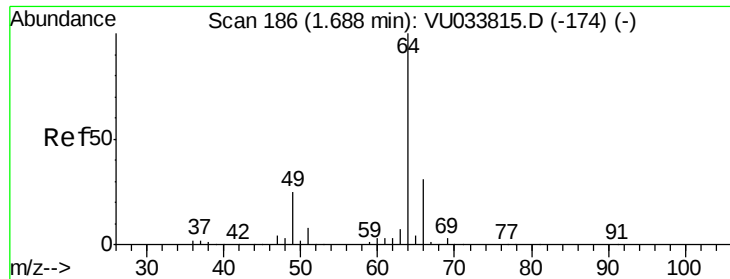
96 92.5 65.9 122.3



Abundance Ion 94.00 (93.70 to 94.70): VU033821.D (-70) (-)

Ion 96.00 (95.70 to 96.70): VU033821.D (-70) (-)





#8

Chloroethane

Concen: 42.077 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

Instrument :

MSVOA_U

ClientSampleId :

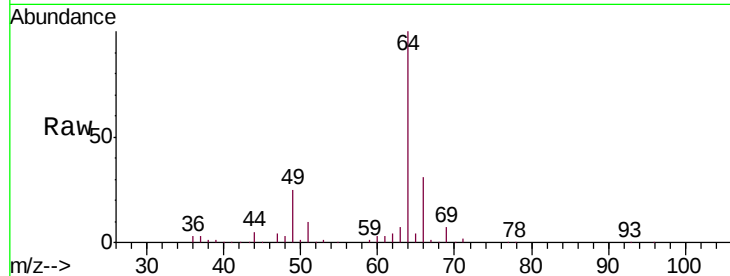
VSTD05044

Tgt Ion: 64 Resp: 132788

Ion Ratio Lower Upper

64 100

66 31.4 23.9 44.3



Abundance Ion 64.00 (63.70 to 64.70): VU033821.D (-174) (-)

Ion 66.00 (65.70 to 66.70): VU033821.D (-174) (-)

1.69

120000

100000

80000

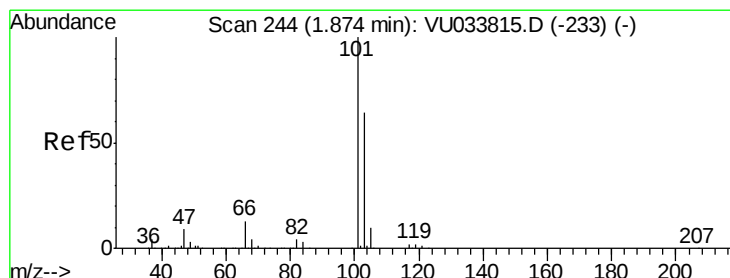
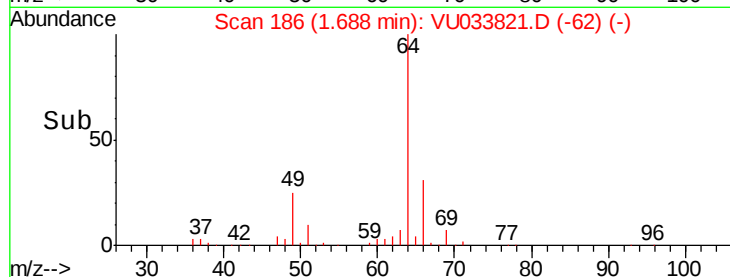
60000

40000

20000

0

Time-->



#9

Trichlorofluoromethane

Concen: 46.633 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033821.D

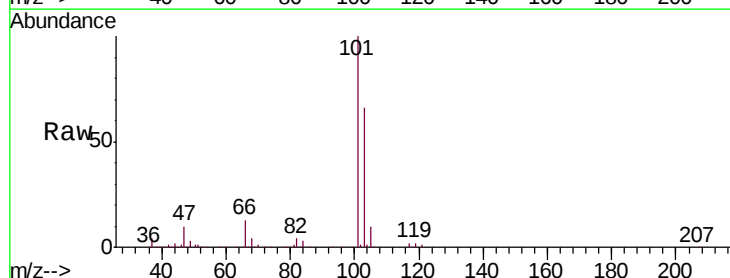
Acq: 15 Aug 2019 19:42

Tgt Ion: 101 Resp: 281727

Ion Ratio Lower Upper

101 100

103 65.2 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VU033821.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033821.D (-233) (-)

1.87

200000

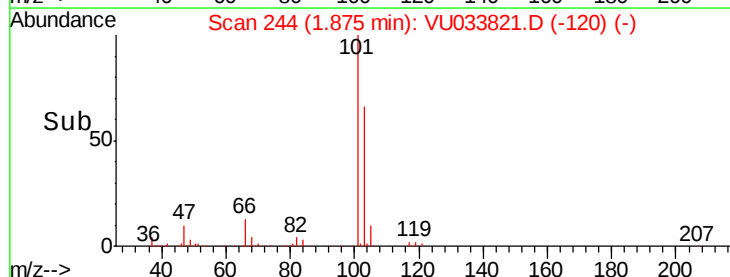
150000

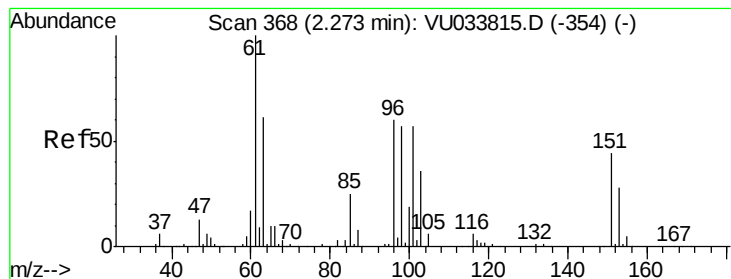
100000

50000

0

Time-->





#10

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

Concen: 48.073 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

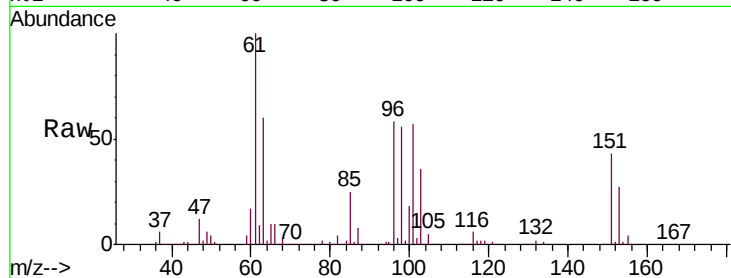
Tgt Ion: 101 Resp: 139029

Ion Ratio Lower Upper

101 100

85 43.7 35.2 52.8

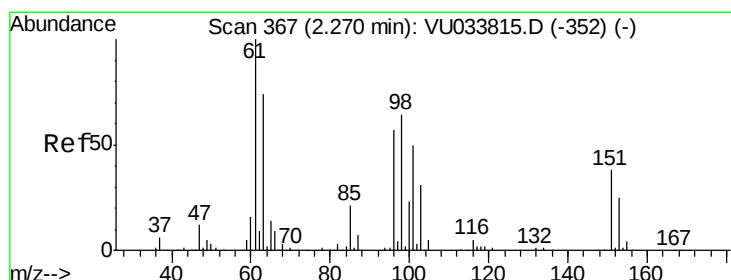
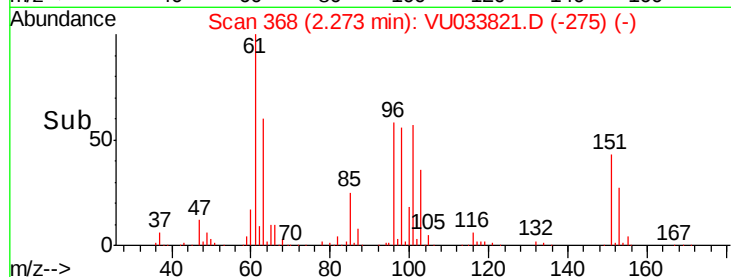
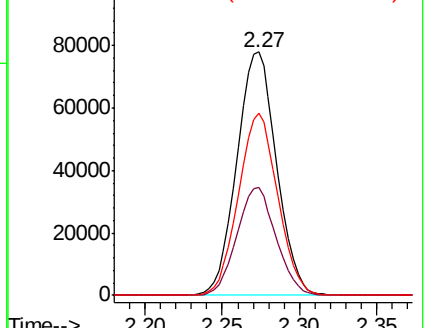
151 74.1 60.4 90.6



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: 47.310 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

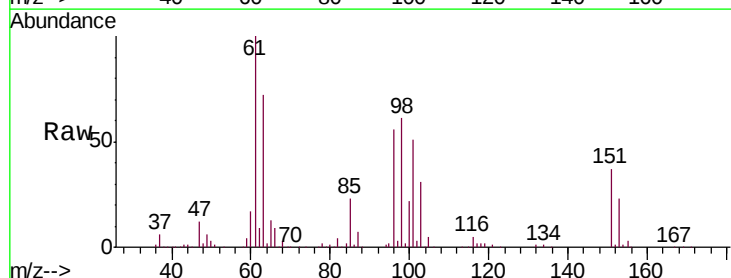
Tgt Ion: 96 Resp: 132616

Ion Ratio Lower Upper

96 100

61 177.9 123.7 229.7

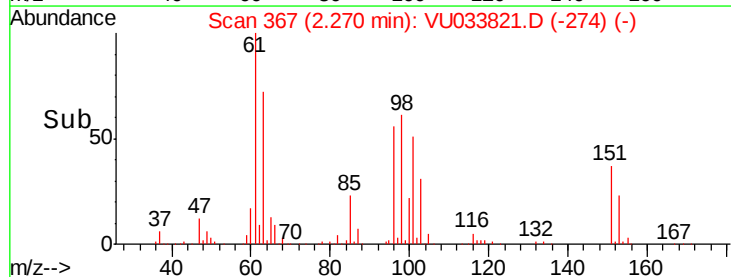
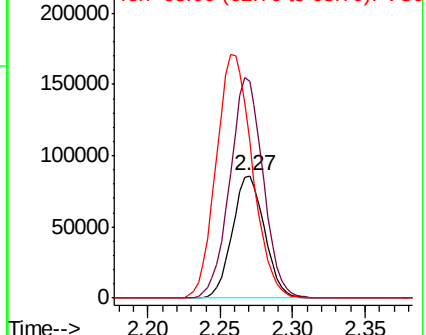
63 127.8 91.2 169.4

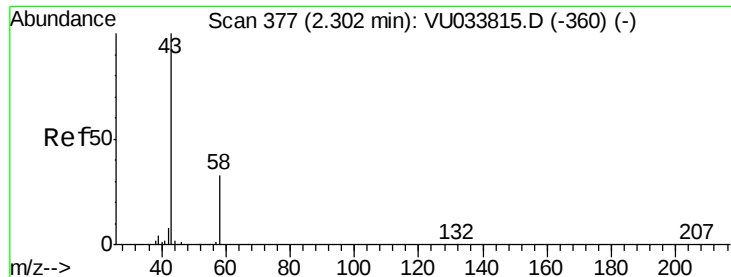


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 77.943 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.01 min

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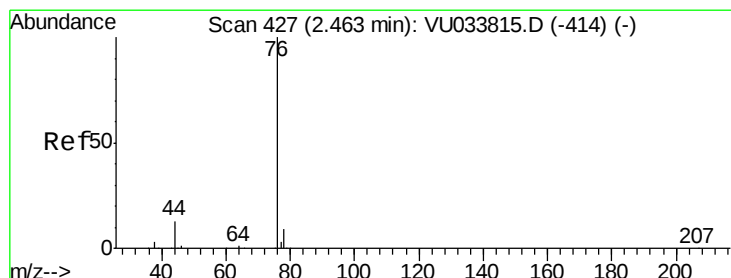
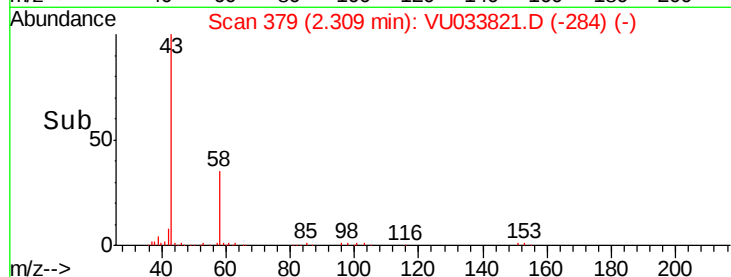
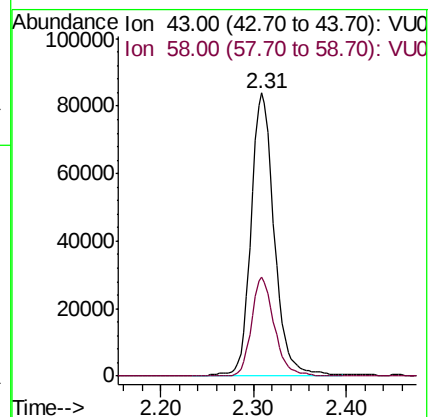
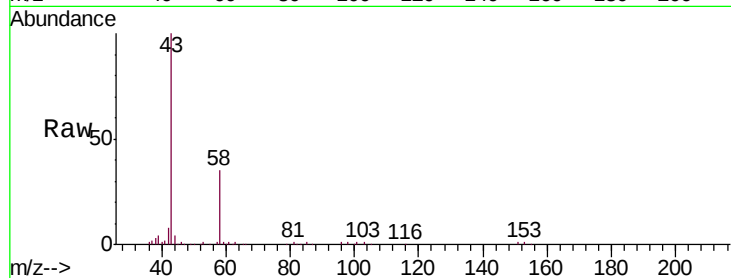
VSTD05044

Tgt Ion: 43 Resp: 146594

Ion Ratio Lower Upper

43 100

58 34.2 0.0 69.0



#14

Carbon disulfide

Concen: 46.723 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

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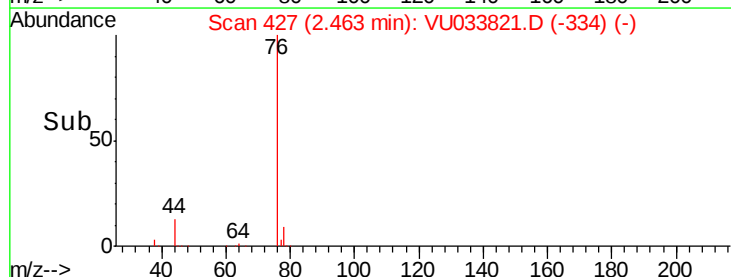
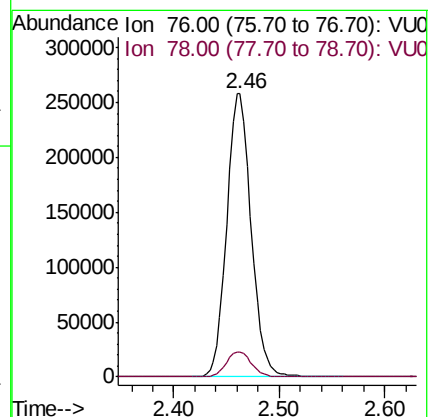
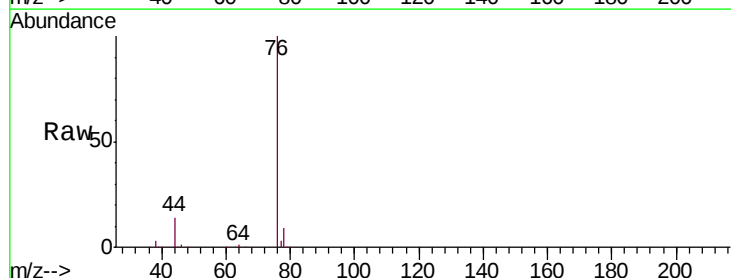
Acq: 15 Aug 2019 19:42

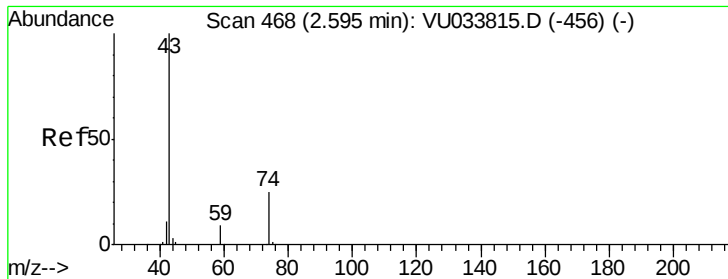
Tgt Ion: 76 Resp: 412993

Ion Ratio Lower Upper

76 100

78 8.8 7.4 11.2





#15

Methyl Acetate

Concen: 49.747 ug/L

RT: 2.60 min Scan# 469

Delta R.T. 0.00 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

Instrument :

MSVOA_U

ClientSampleId :

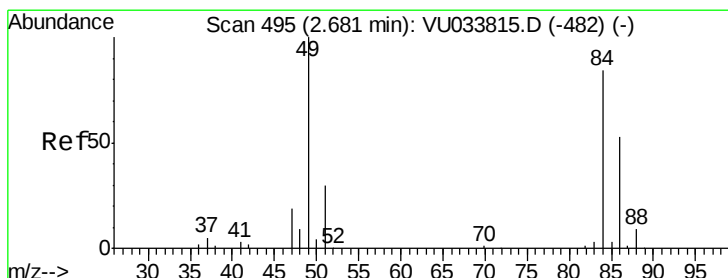
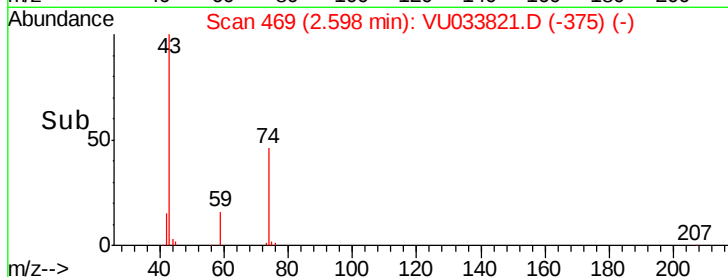
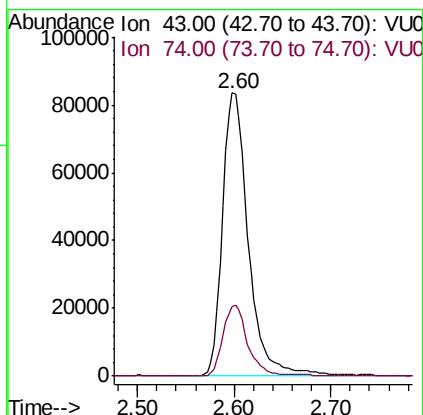
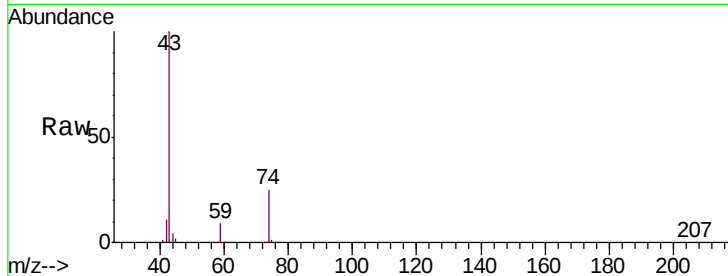
VSTD05044

Tgt Ion: 43 Resp: 154296

Ion Ratio Lower Upper

43 100

74 24.3 19.7 29.5



#16

Methylene chloride

Concen: 47.978 ug/L

RT: 2.68 min Scan# 495

Delta R.T. 0.00 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

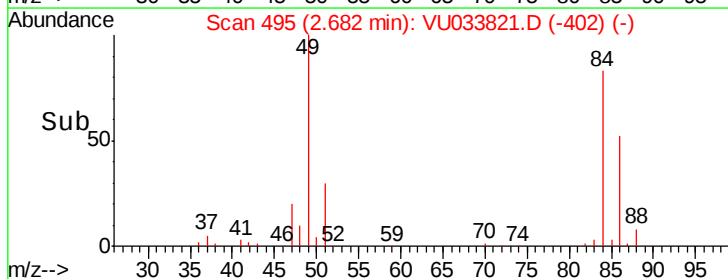
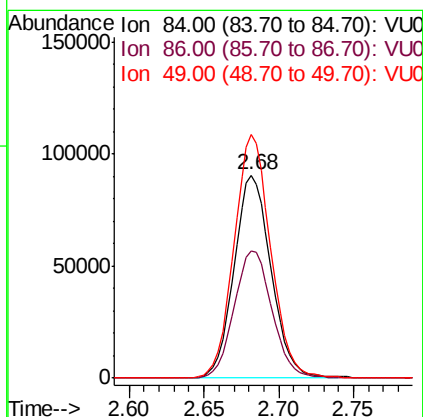
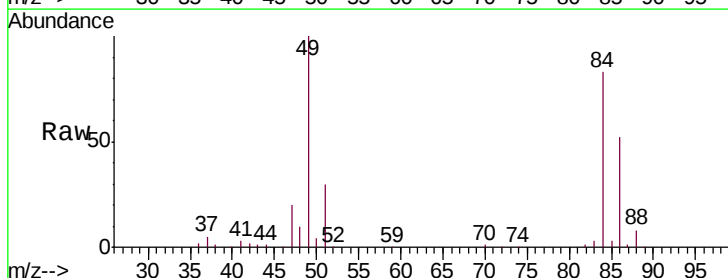
Tgt Ion: 84 Resp: 155845

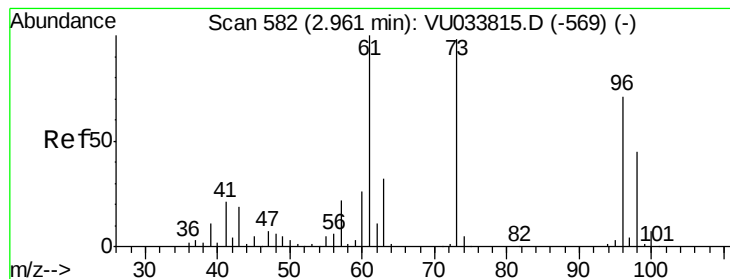
Ion Ratio Lower Upper

84 100

86 62.8 46.1 85.5

49 120.1 85.6 159.0





#17

trans-1,2-Dichloroethene

Concen: 48.117 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

Instrument :

MSVOA_U

ClientSampled :

VSTD05044

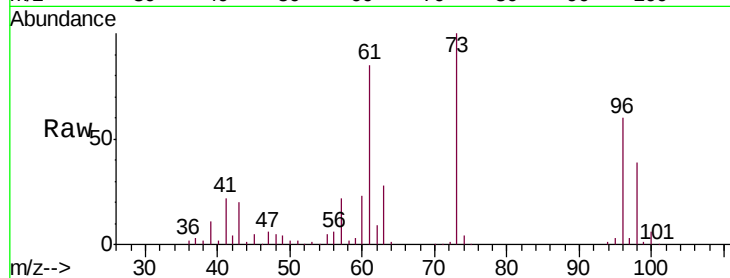
Tgt Ion: 96 Resp: 140601

Ion Ratio Lower Upper

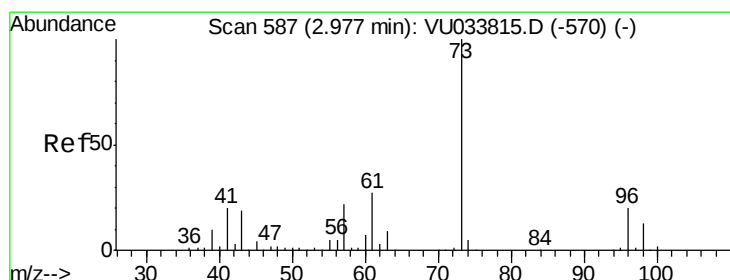
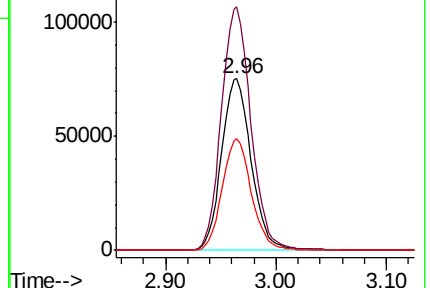
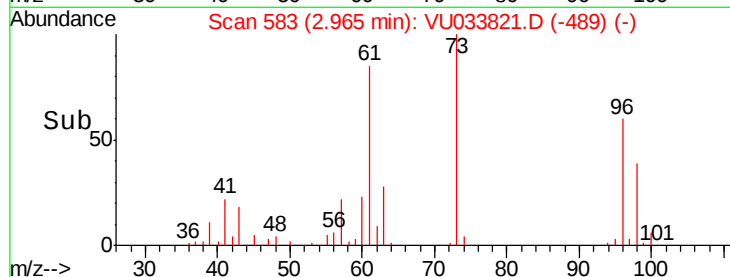
96 100

61 141.7 98.6 183.2

98 65.1 43.8 81.3



Abundance Ion 96.00 (95.70 to 96.70): VU033821.D (-489) (-)



#18

Methyl tert-butyl Ether

Concen: 50.510 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

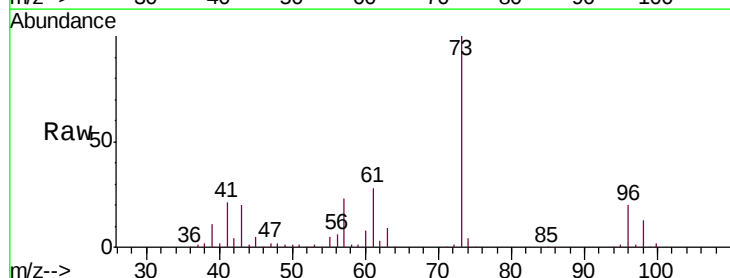
Tgt Ion: 73 Resp: 430731

Ion Ratio Lower Upper

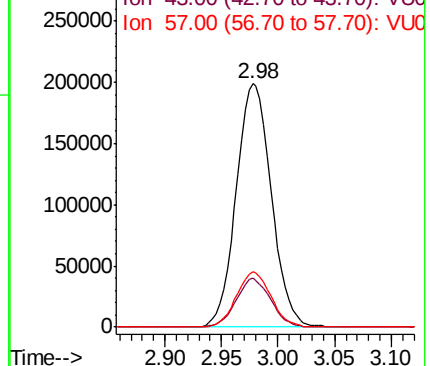
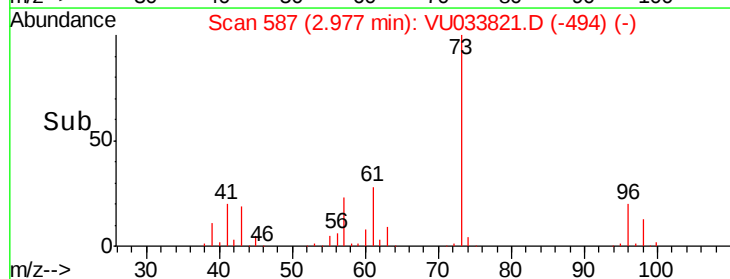
73 100

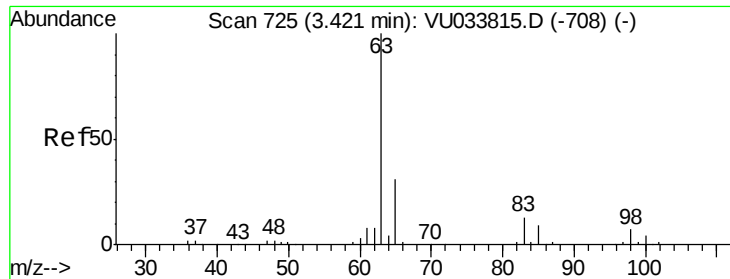
43 19.8 15.2 22.8

57 22.3 17.8 26.8



Abundance Ion 73.00 (72.70 to 73.70): VU033821.D (-494) (-)

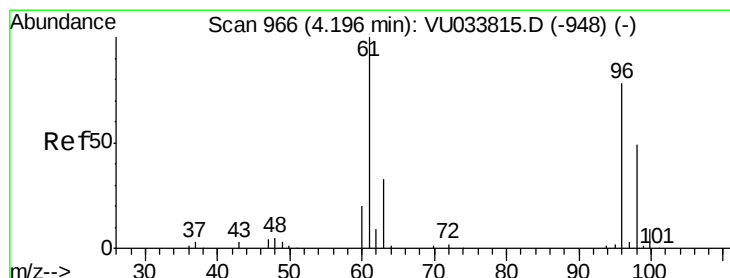
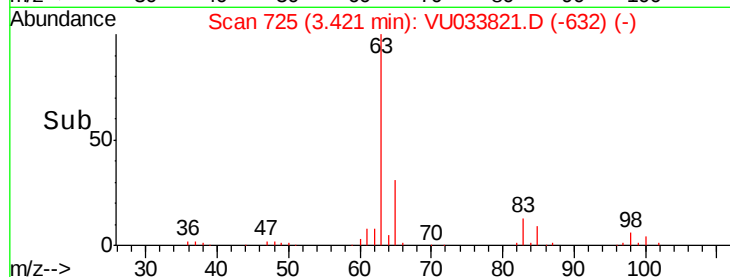
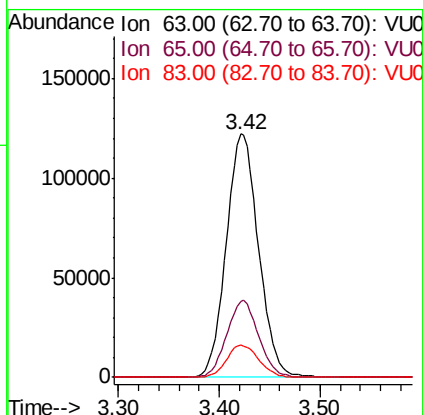
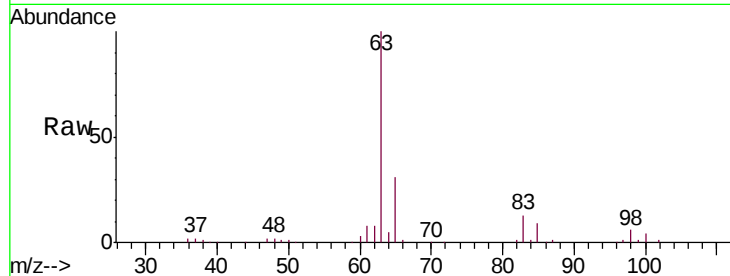




#19
 1,1-Dichloroethane
 Concen: 48.456 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. 0.00 min
 Lab File: VU033821.D
 Acq: 15 Aug 2019 19:42

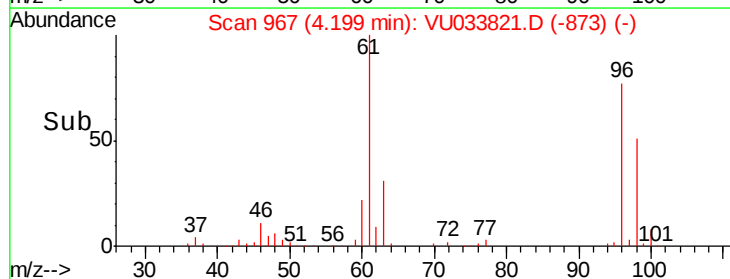
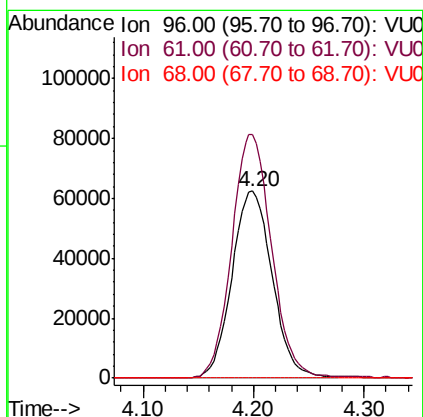
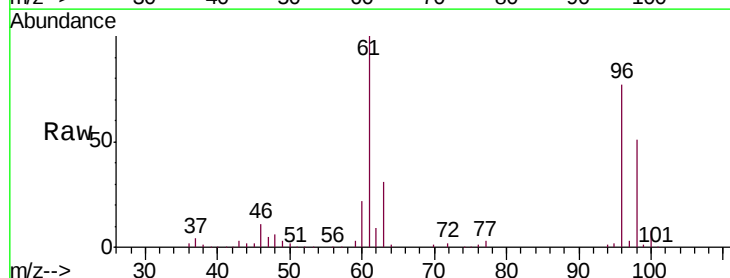
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

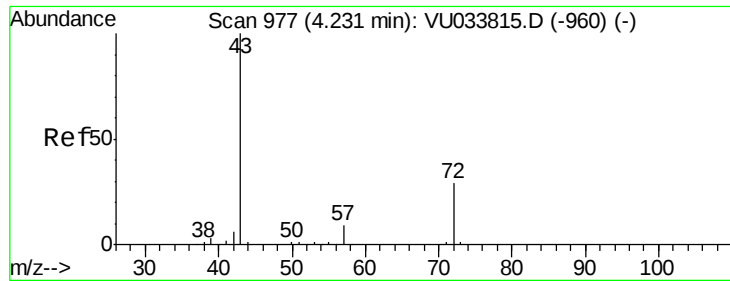
Tgt Ion: 63 Resp: 272469
 Ion Ratio Lower Upper
 63 100
 65 31.2 21.8 40.6
 83 13.1 9.9 18.3



#20
 cis-1,2-Dichloroethene
 Concen: 50.007 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU033821.D
 Acq: 15 Aug 2019 19:42

Tgt Ion: 96 Resp: 158072
 Ion Ratio Lower Upper
 96 100
 61 130.3 88.2 163.8
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 96.135 ug/L

RT: 4.24 min Scan# 979

Delta R.T. 0.01 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

Instrument :

MSVOA_U

ClientSampleId :

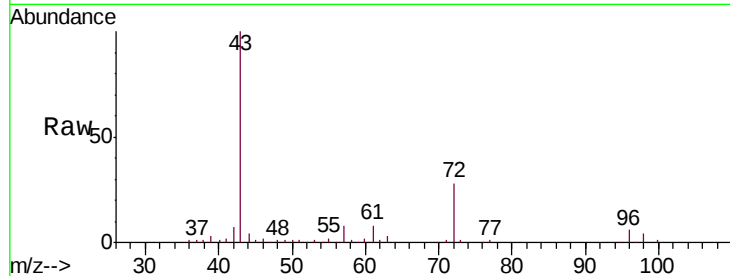
VSTD05044

Tgt Ion: 43 Resp: 208078

Ion Ratio Lower Upper

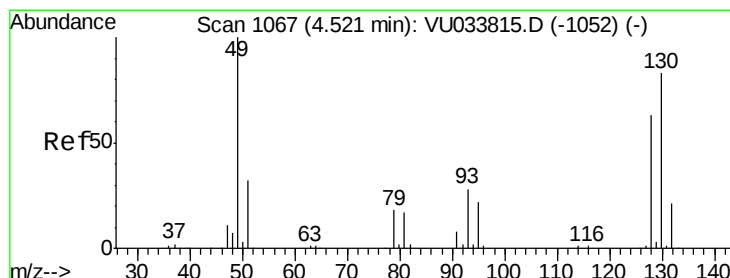
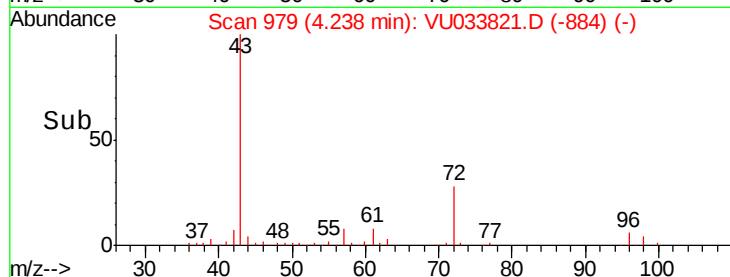
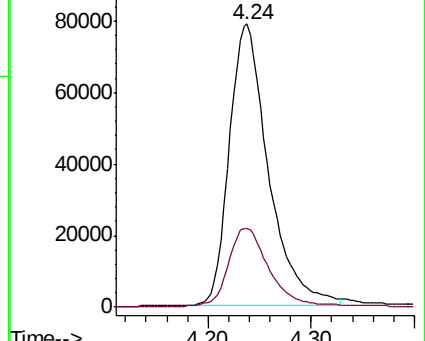
43 100

72 29.8 14.4 43.2



Abundance Ion 43.00 (42.70 to 43.70): VU033821.D (-960) (-)

Ion 72.00 (71.70 to 72.70): VU033821.D (-960) (-)



#23

Bromochloromethane

Concen: 48.415 ug/L

RT: 4.52 min Scan# 1067

Delta R.T. 0.00 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

Tgt Ion: 128 Resp: 83440

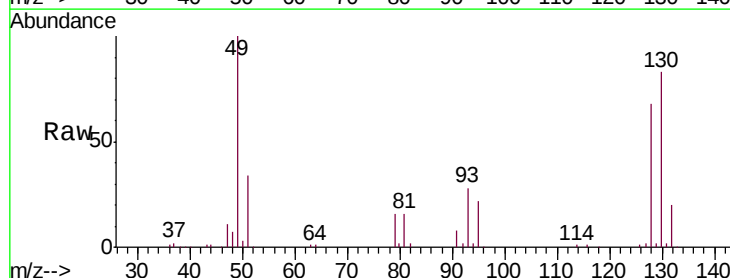
Ion Ratio Lower Upper

128 100

49 147.5 106.7 198.3

130 122.1 90.4 168.0

51 50.0 38.4 57.6

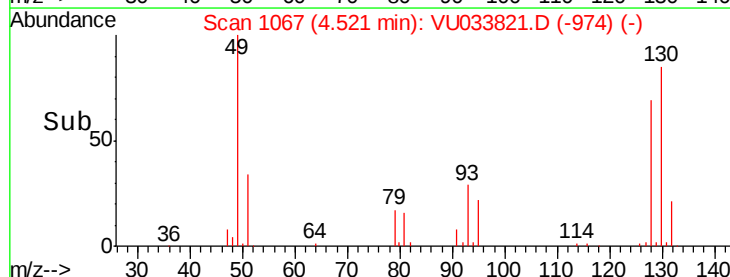
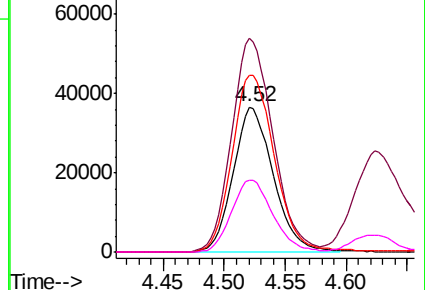


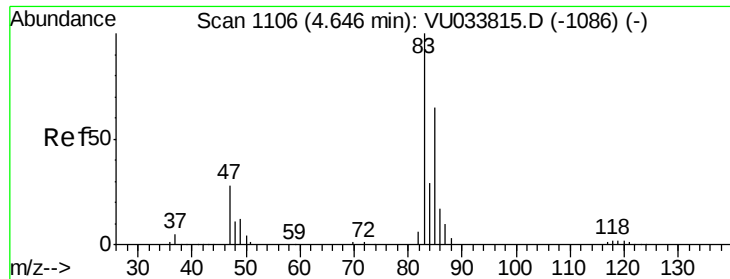
Abundance Ion 128.00 (127.70 to 128.70): VU033821.D (-974) (-)

Ion 49.00 (48.70 to 49.70): VU033821.D (-974) (-)

Ion 130.00 (129.70 to 130.70): VU033821.D (-974) (-)

Ion 51.00 (50.70 to 51.70): VU033821.D (-974) (-)





#25

Chloroform

Concen: 47.906 ug/L

RT: 4.65 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

Instrument :

MSVOA_U

ClientSampleId :

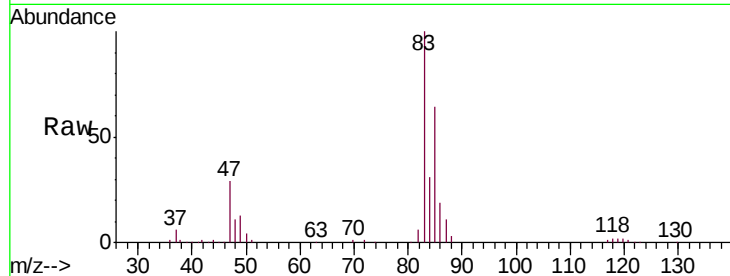
VSTD05044

Tgt Ion: 83 Resp: 279948

Ion Ratio Lower Upper

83 100

85 63.7 46.3 86.1



Abundance Ion 83.00 (82.70 to 83.70): VU033815.D (-1086) (-)

Ion 85.00 (84.70 to 85.70): VU033815.D (-1086) (-)

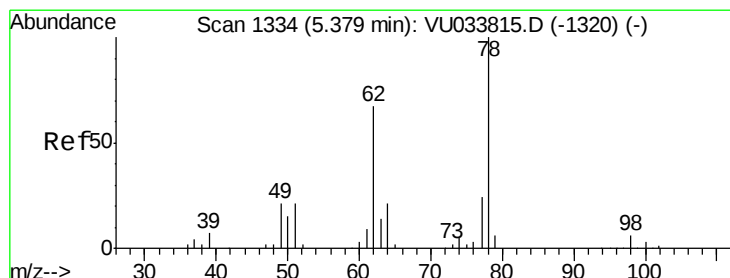
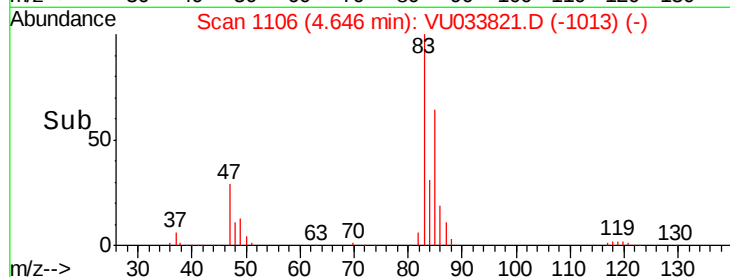
4.65

100000

50000

0

Time-->



#27

1,2-Dichloroethane

Concen: 49.663 ug/L

RT: 5.38 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VU033821.D

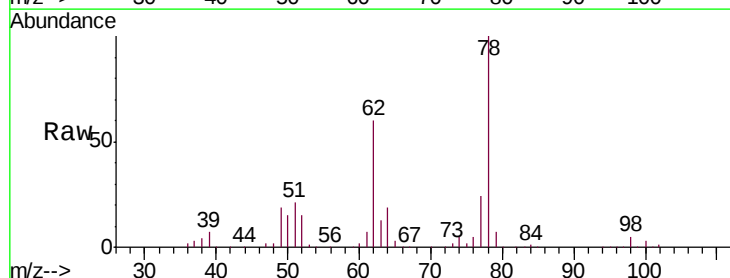
Acq: 15 Aug 2019 19:42

Tgt Ion: 62 Resp: 220027

Ion Ratio Lower Upper

62 100

98 8.8 7.0 10.6



Abundance Ion 62.00 (61.70 to 62.70): VU033815.D (-1320) (-)

Ion 98.00 (97.70 to 98.70): VU033815.D (-1320) (-)

5.38

120000

100000

80000

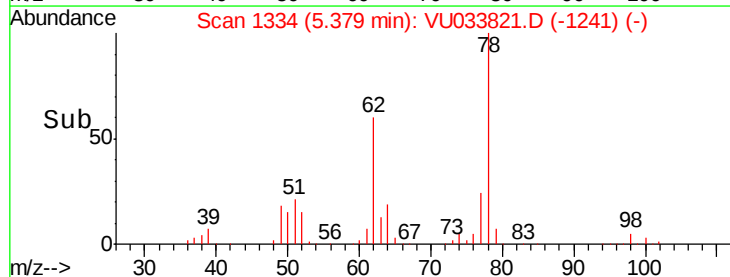
60000

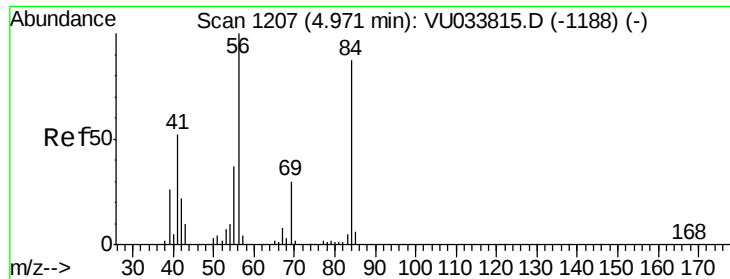
40000

20000

0

Time-->

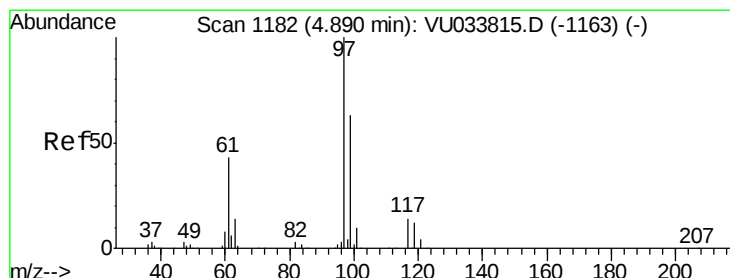
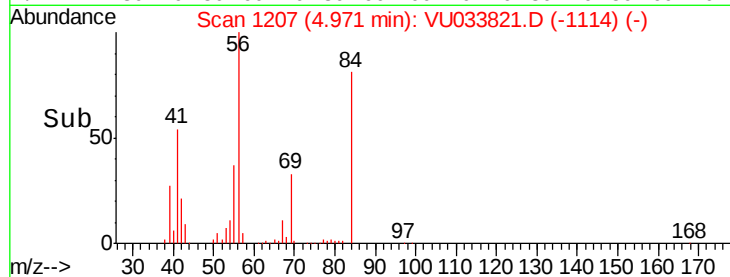
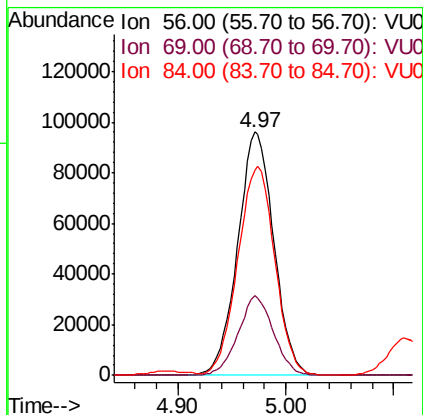
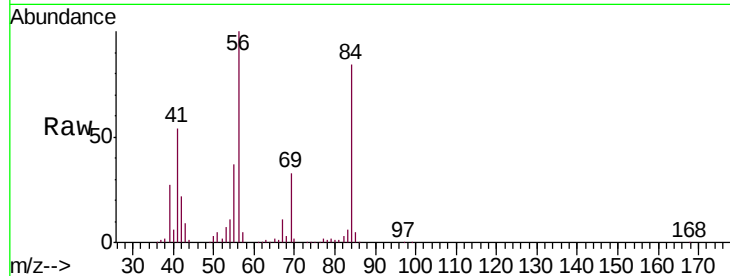




#29
Cyclohexane
Concen: 52.012 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU033821.D
Acq: 15 Aug 2019 19:42

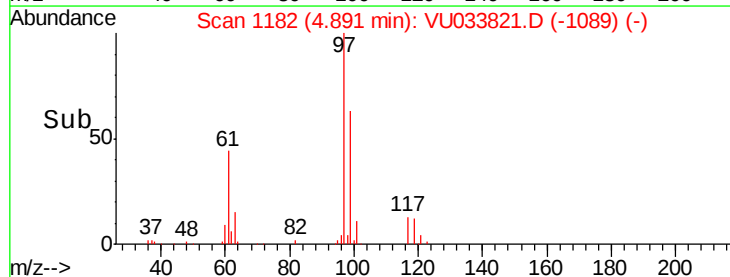
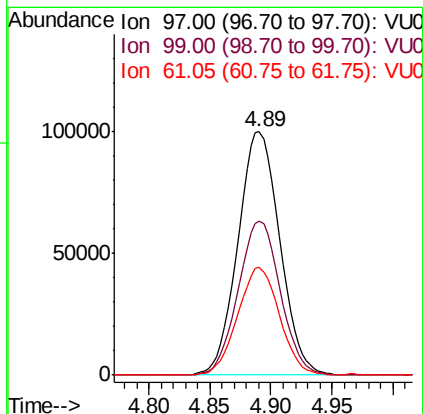
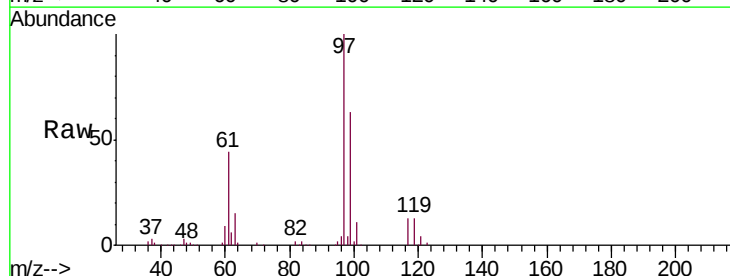
Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

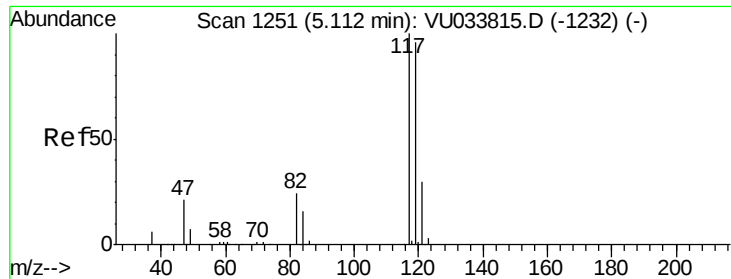
Tgt Ion: 56 Resp: 223447
Ion Ratio Lower Upper
56 100
69 31.9 24.4 36.6
84 88.3 69.0 103.4



#30
1,1,1-Trichloroethane
Concen: 49.305 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033821.D
Acq: 15 Aug 2019 19:42

Tgt Ion: 97 Resp: 238005
Ion Ratio Lower Upper
97 100
99 63.5 51.8 77.8
61 44.2 35.8 53.6

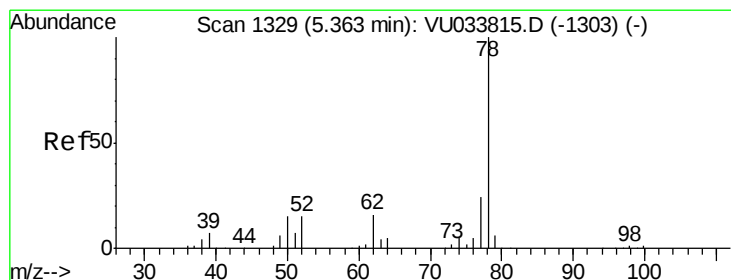
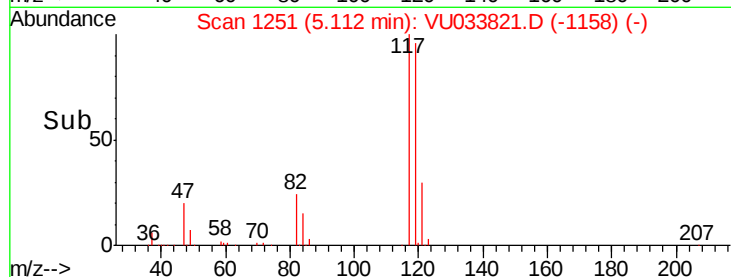
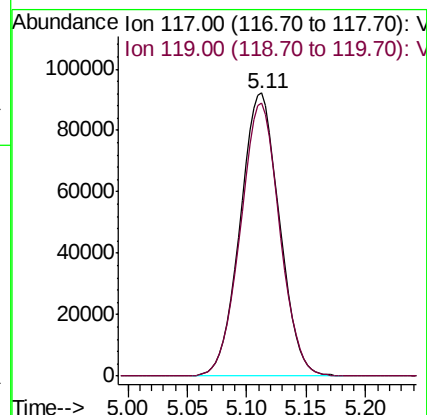
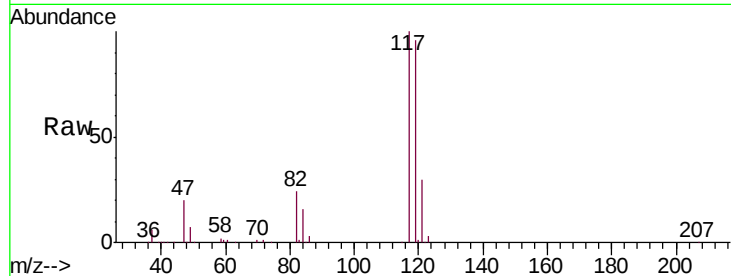




#31
Carbon tetrachloride
Concen: 47.952 ug/L
RT: 5.11 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU033821.D
Acq: 15 Aug 2019 19:42

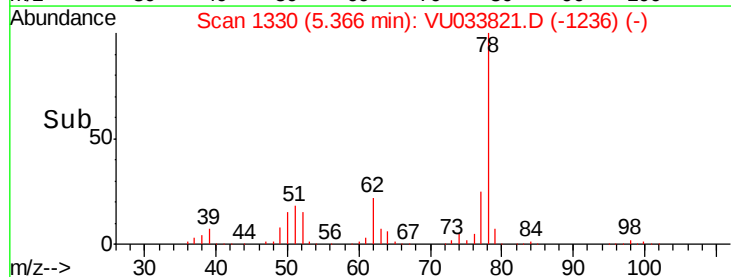
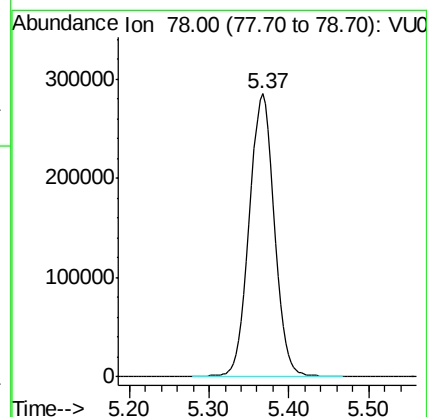
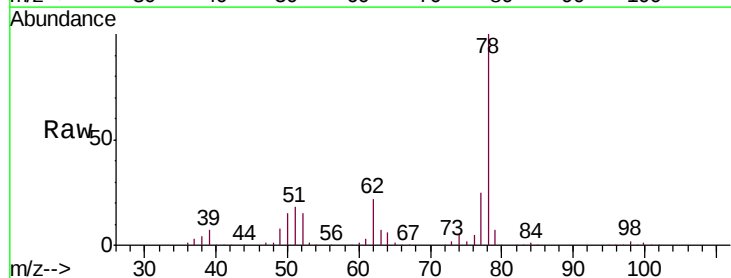
Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

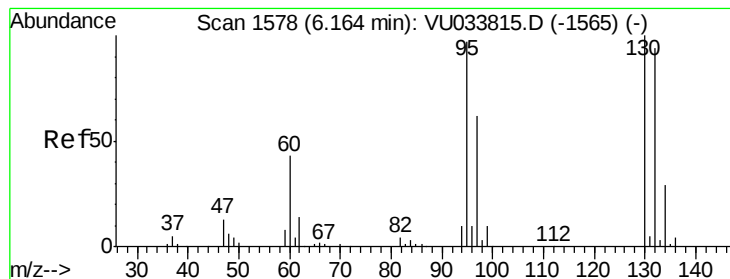
Tgt Ion:117 Resp: 210642
Ion Ratio Lower Upper
117 100
119 96.4 77.0 115.6



#33
Benzene
Concen: 50.203 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU033821.D
Acq: 15 Aug 2019 19:42

Tgt Ion: 78 Resp: 608088





#34

Trichloroethene

Concen: 48.337 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

Tgt Ion: 95 Resp: 156257

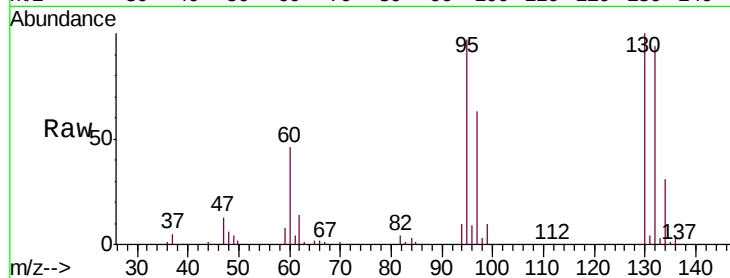
Ion Ratio Lower Upper

95 100

97 65.3 46.3 86.1

132 97.0 67.9 126.1

130 103.3 72.0 133.6

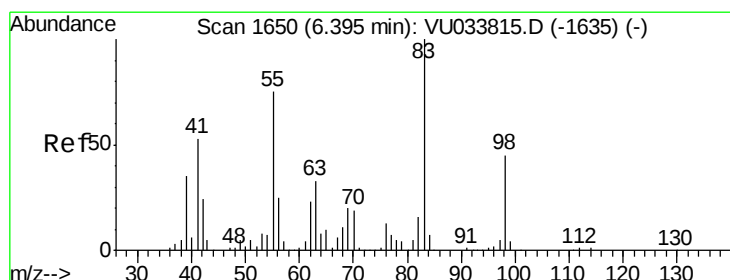
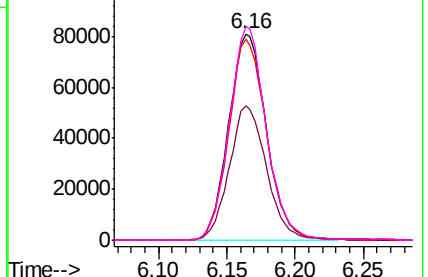
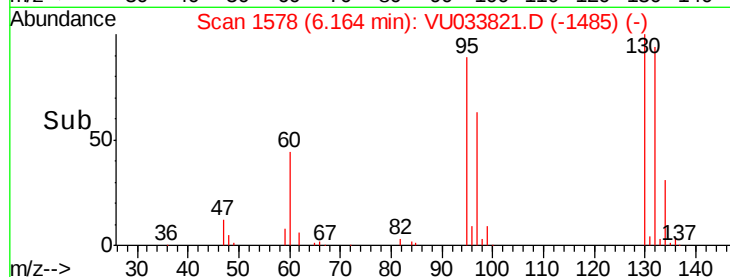


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 49.849 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

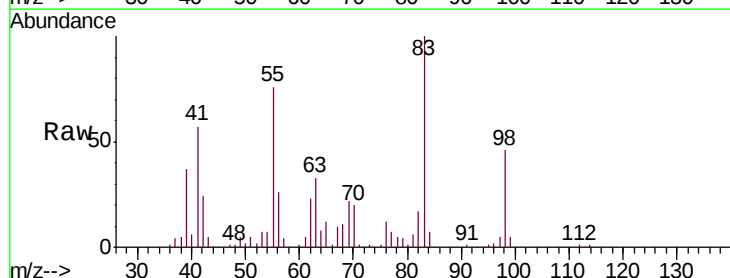
Tgt Ion: 83 Resp: 235973

Ion Ratio Lower Upper

83 100

55 76.1 61.6 92.4

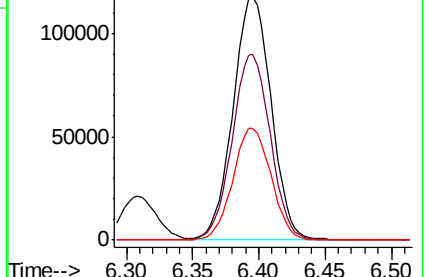
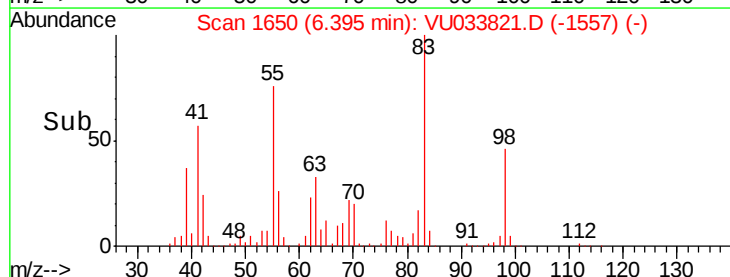
98 46.1 37.2 55.8

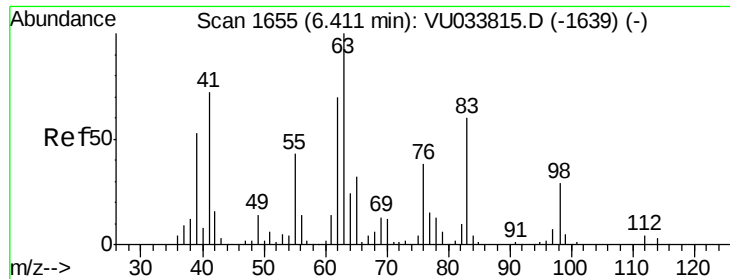


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

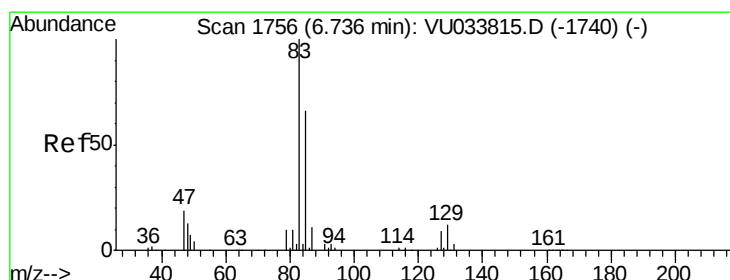
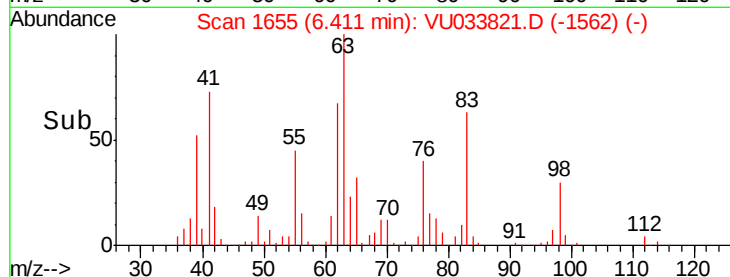
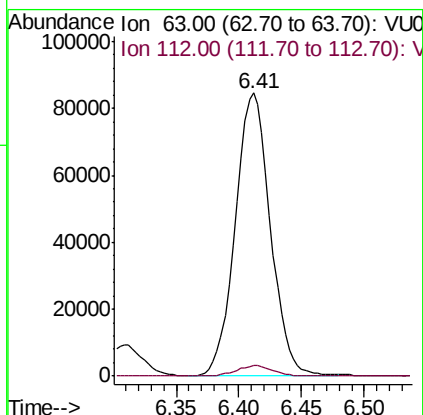
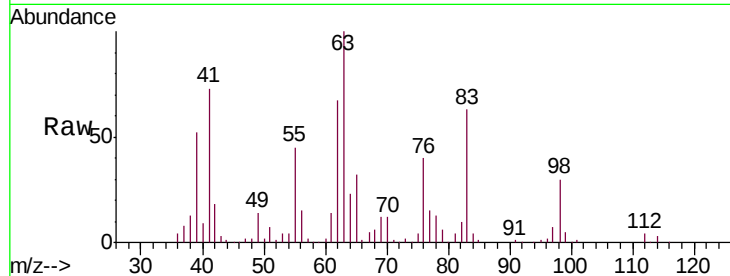




#37
 1,2-Dichloropropane
 Concen: 49.355 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033821.D
 Acq: 15 Aug 2019 19:42

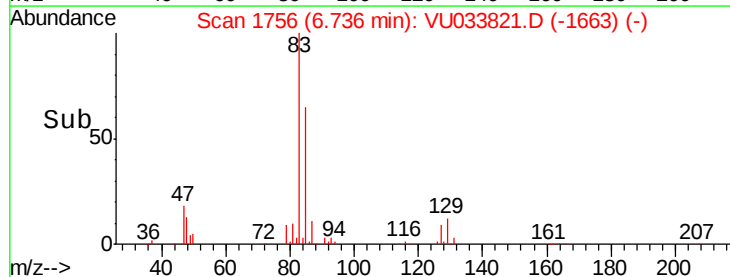
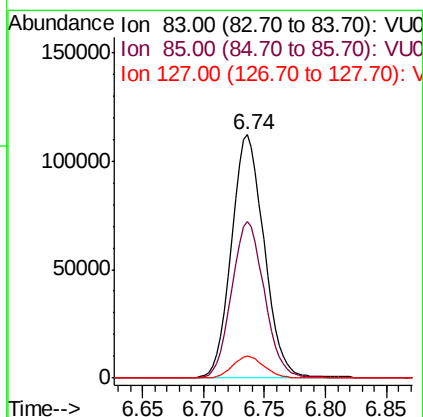
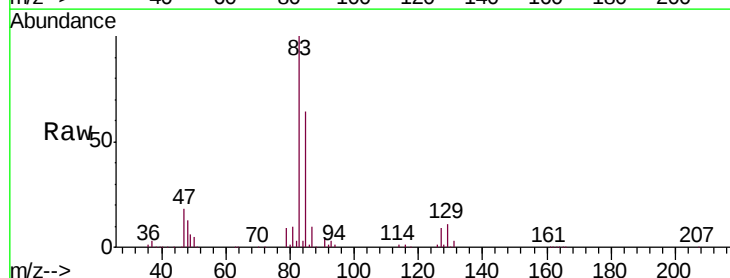
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

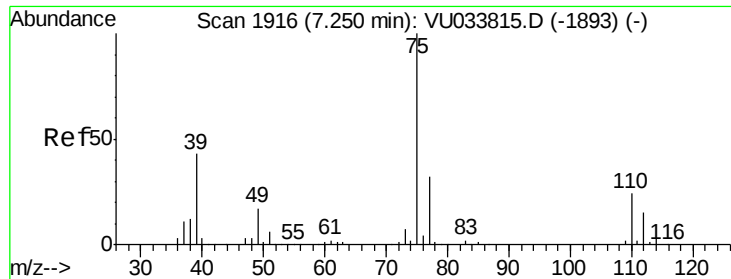
Tgt Ion: 63 Resp: 163702
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.2 4.8



#38
 Bromodichloromethane
 Concen: 48.496 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU033821.D
 Acq: 15 Aug 2019 19:42

Tgt Ion: 83 Resp: 208264
 Ion Ratio Lower Upper
 83 100
 85 64.4 45.9 85.3
 127 8.9 7.3 10.9

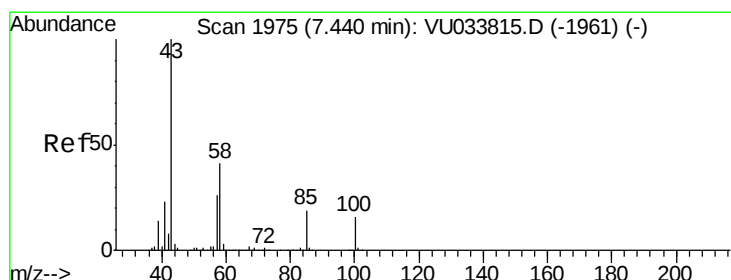
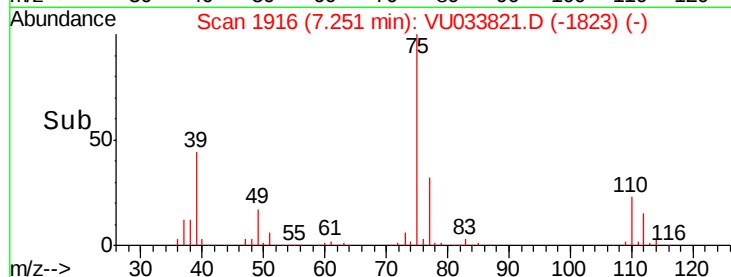
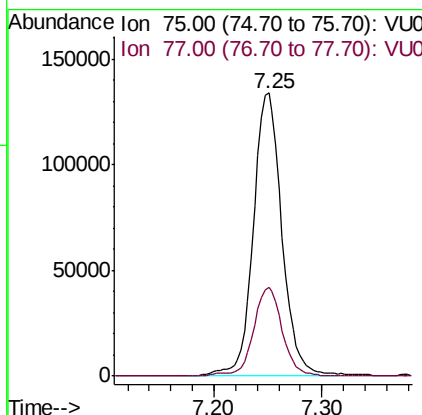
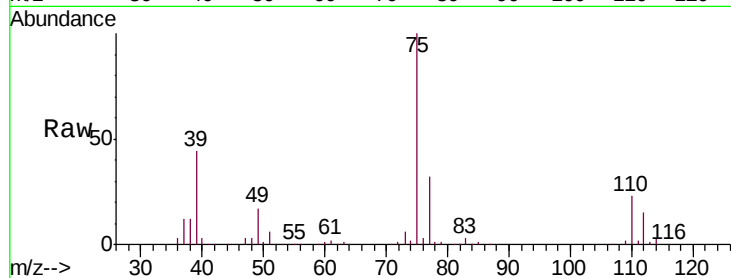




#39
 cis-1,3-Dichloropropene
 Concen: 51.012 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU033821.D
 Acq: 15 Aug 2019 19:42

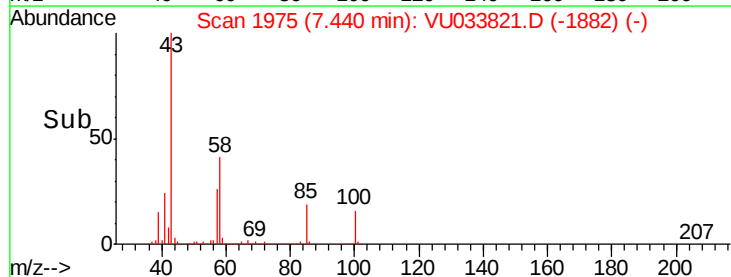
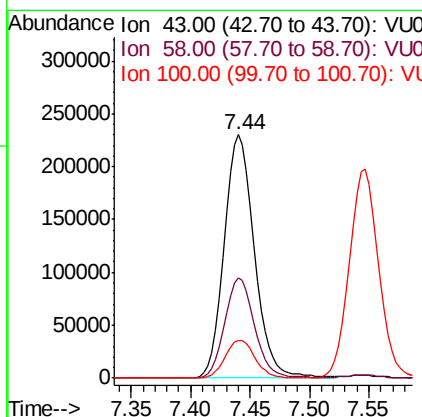
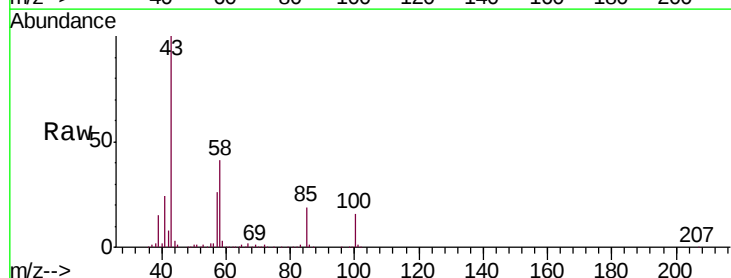
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05044

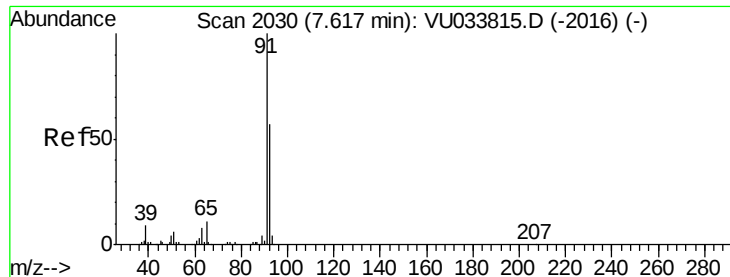
Tgt Ion: 75 Resp: 246599
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.5 41.7



#40
 4-Methyl-2-pentanone
 Concen: 104.076 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU033821.D
 Acq: 15 Aug 2019 19:42

Tgt Ion: 43 Resp: 405232
 Ion Ratio Lower Upper
 43 100
 58 40.7 32.6 49.0
 100 15.5 12.4 18.6





#42

Toluene

Concen: 51.423 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

Instrument :

MSVOA_U

ClientSampleId :

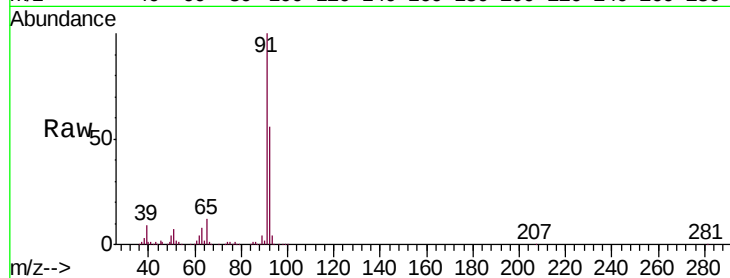
VSTD05044

Tgt Ion: 91 Resp: 658452

Ion Ratio Lower Upper

91 100

92 56.2 39.9 74.1



Abundance Ion 91.00 (90.70 to 91.70): VU033821.D (-1937) (-)

Ion 92.00 (91.70 to 92.70): VU033821.D (-1937) (-)

7.62

400000

300000

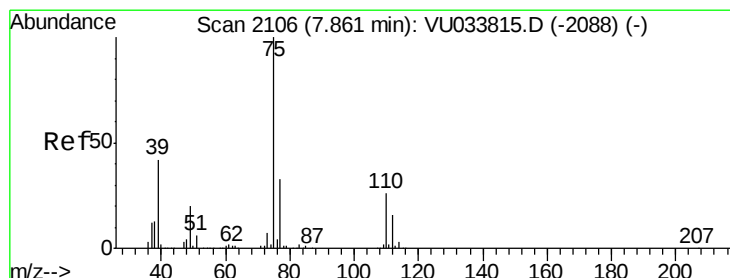
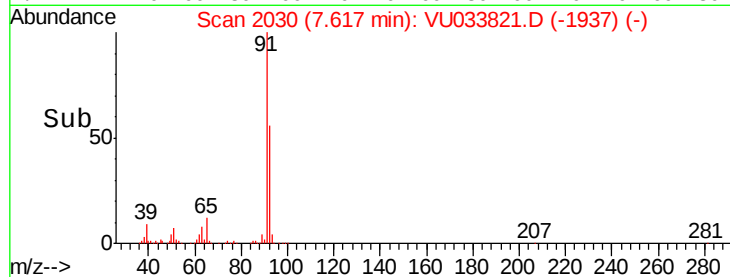
200000

100000

0

7.60 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 50.123 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033821.D

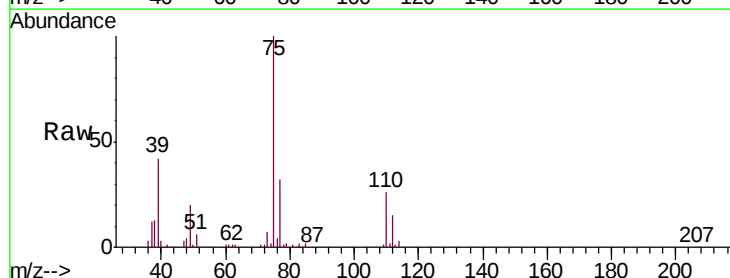
Acq: 15 Aug 2019 19:42

Tgt Ion: 75 Resp: 222678

Ion Ratio Lower Upper

75 100

77 31.9 22.5 41.9



Abundance Ion 75.00 (74.70 to 75.70): VU033821.D (-2013) (-)

Ion 77.00 (76.70 to 77.70): VU033821.D (-2013) (-)

7.86

150000

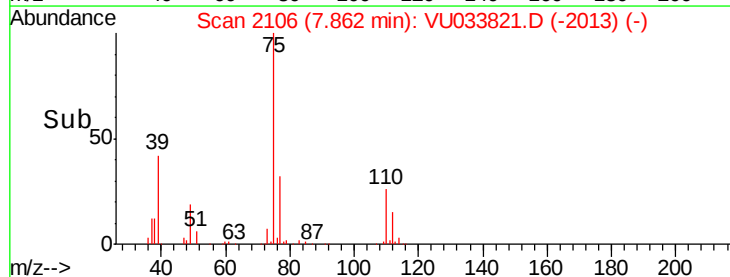
100000

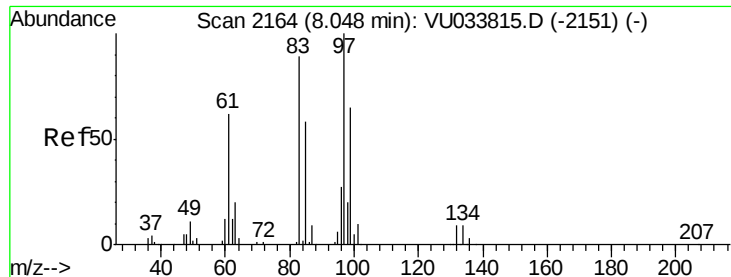
50000

0

7.80 7.90 8.00

Time-->

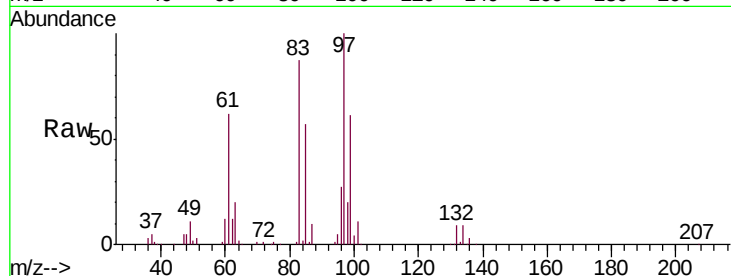




#45
 1,1,2-Trichloroethane
 Concen: 48.993 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. 0.00 min
 Lab File: VU033821.D
 Acq: 15 Aug 2019 19:42

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

Tgt Ion:	97	Resp:	152526
Ion	Ratio	Lower	Upper
97	100		
99	61.4	43.9	81.5
83	87.4	61.7	114.5
85	56.8	39.2	72.8



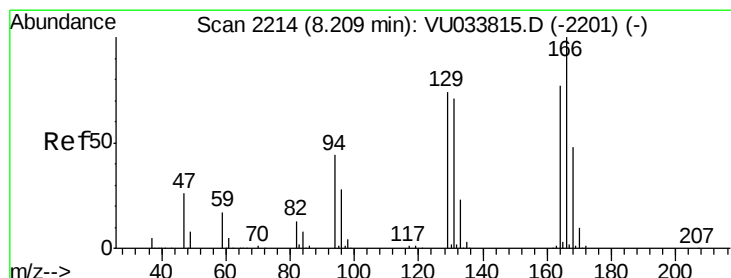
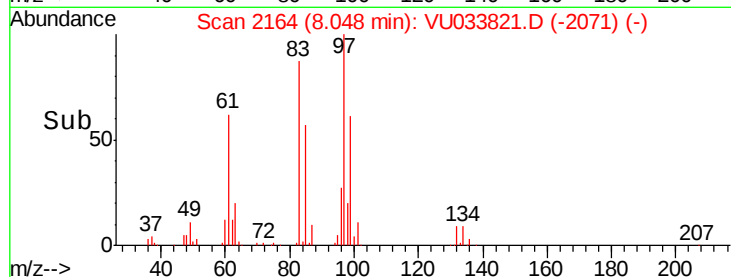
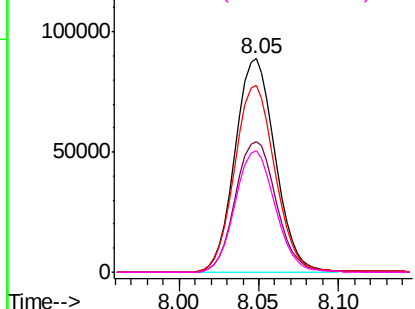
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

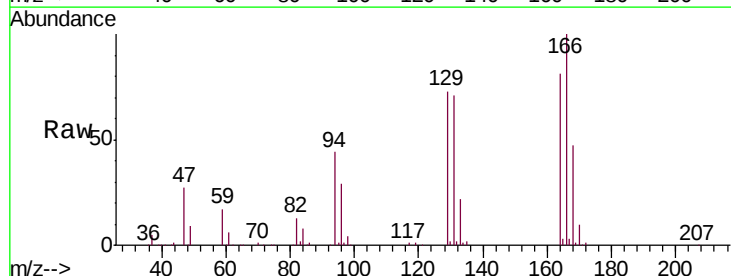
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 48.379 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. 0.00 min
 Lab File: VU033821.D
 Acq: 15 Aug 2019 19:42

Tgt Ion:	164	Resp:	125382
Ion	Ratio	Lower	Upper
164	100		
129	91.0	64.4	119.6
131	88.3	63.8	118.4
166	124.2	90.9	168.7



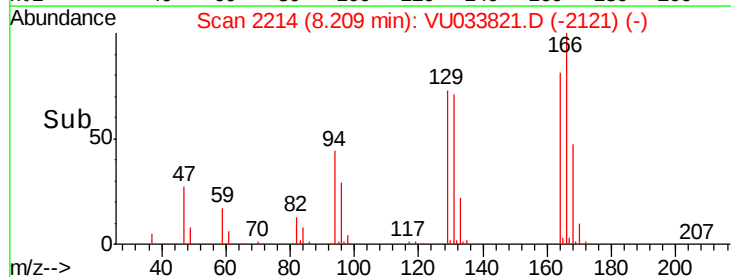
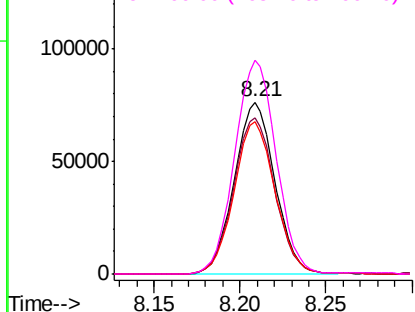
Abundance

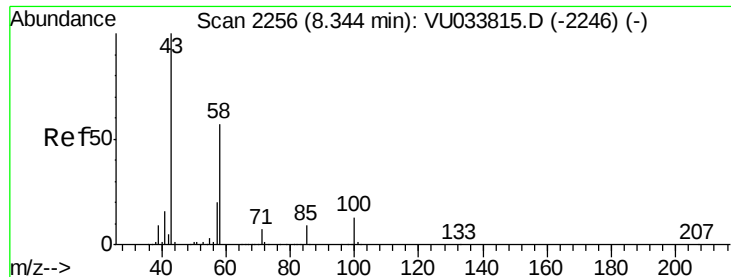
Ion 164.00 (163.70 to 164.70): V

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

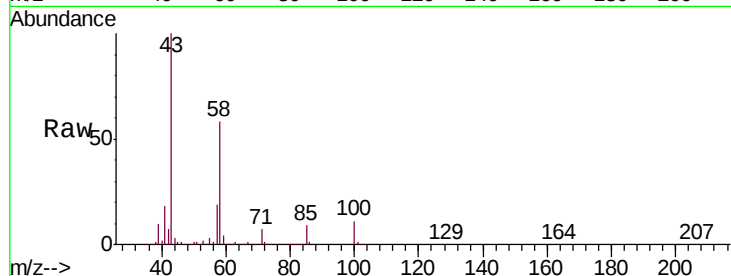




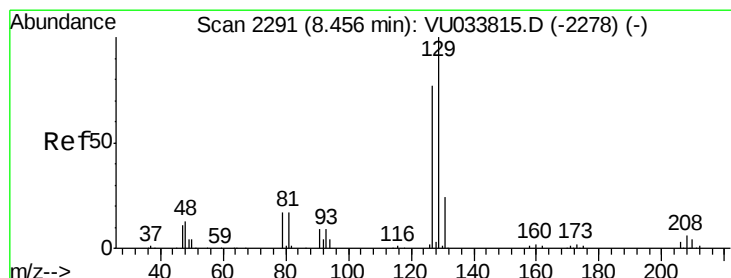
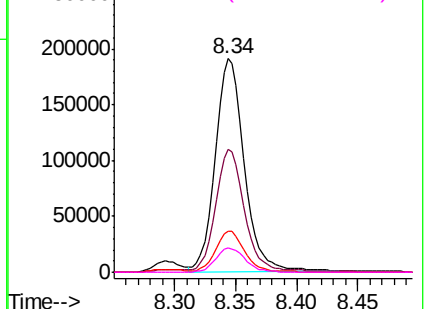
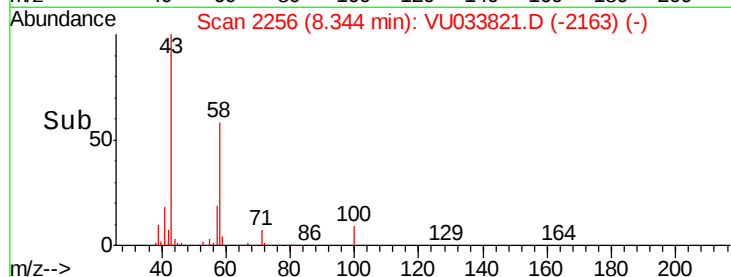
#48
2-Hexanone
Concen: 104.214 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU033821.D
Acq: 15 Aug 2019 19:42

Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

Tgt Ion:	43	Resp:	318173
Ion	Ratio	Lower	Upper
43	100		
58	56.6	45.0	67.4
57	19.4	15.4	23.0
100	11.7	9.6	14.4

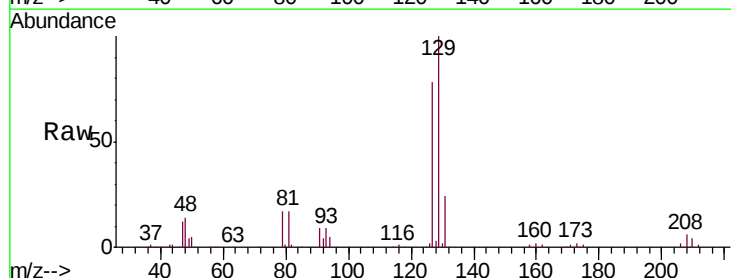


Abundance Ion 43.00 (42.70 to 43.70): VU033821.D (-2163) (-)
Ion 58.00 (57.70 to 58.70): VU033821.D (-2163) (-)
Ion 57.00 (56.70 to 57.70): VU033821.D (-2163) (-)
Ion 100.00 (99.70 to 100.70): VU033821.D (-2163) (-)

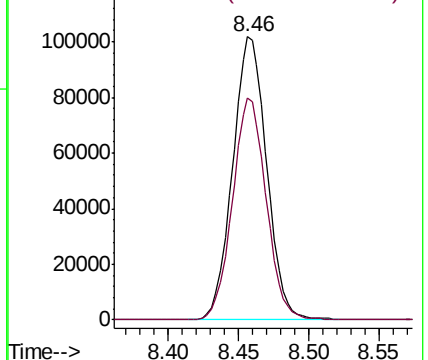
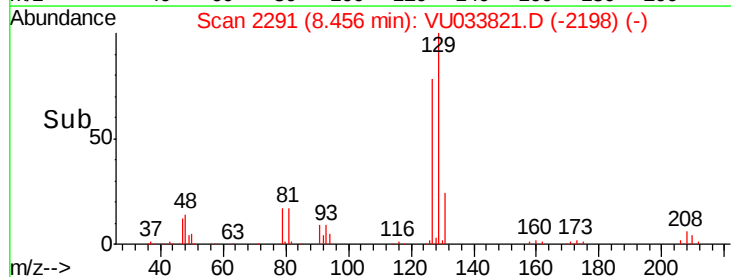


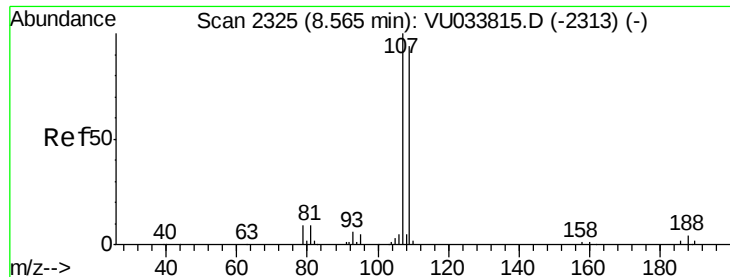
#49
Dibromochloromethane
Concen: 49.020 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU033821.D
Acq: 15 Aug 2019 19:42

Tgt Ion:	129	Resp:	172321
Ion	Ratio	Lower	Upper
129	100		
127	78.2	53.4	99.2



Abundance Ion 129.00 (128.70 to 129.70): VU033821.D (-2198) (-)
Ion 127.00 (126.70 to 127.70): VU033821.D (-2198) (-)

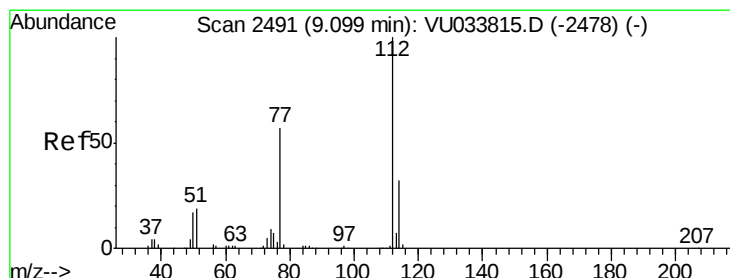
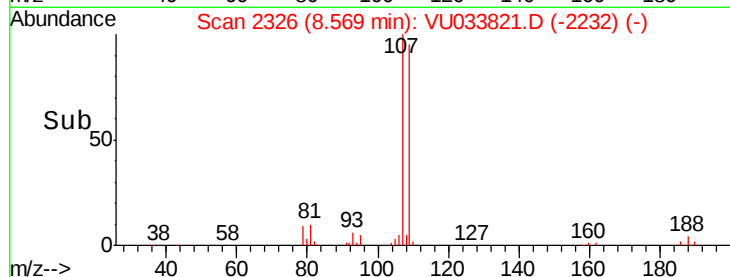
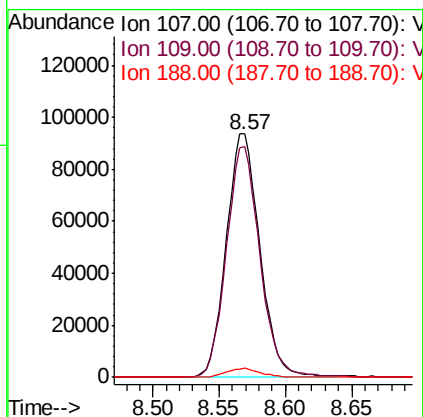
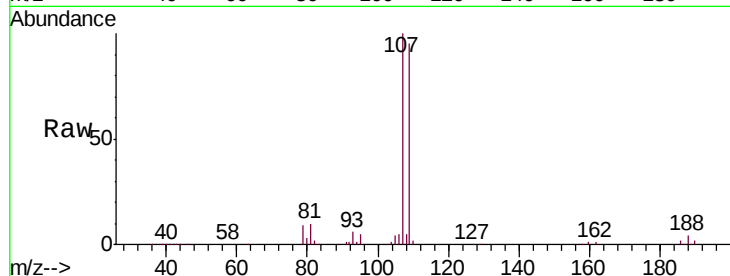




#50
 1,2-Dibromoethane
 Concen: 49.666 ug/L
 RT: 8.57 min Scan# 2326
 Delta R.T. 0.00 min
 Lab File: VU033821.D
 Acq: 15 Aug 2019 19:42

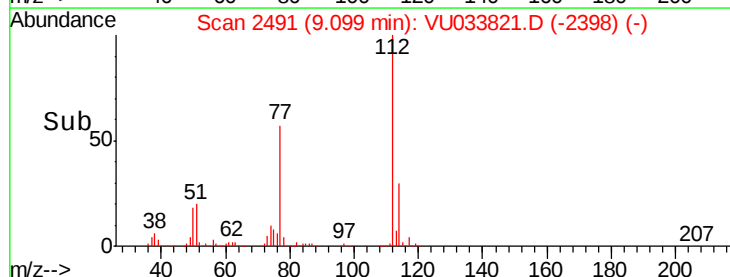
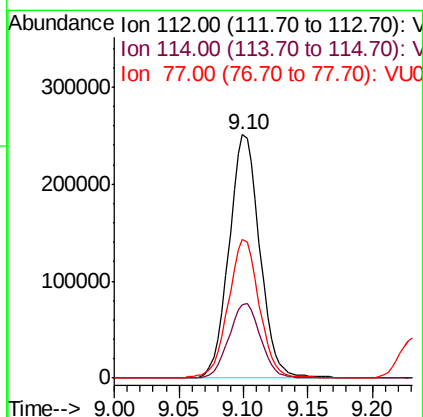
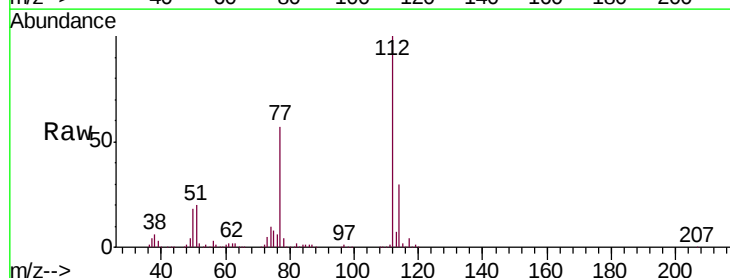
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

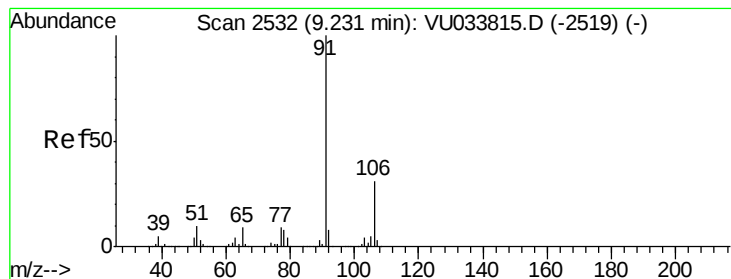
Tgt Ion:107 Resp: 164632
 Ion Ratio Lower Upper
 107 100
 109 94.8 64.8 120.3
 188 3.7 3.1 4.7



#51
 Chlorobenzene
 Concen: 49.147 ug/L
 RT: 9.10 min Scan# 2491
 Delta R.T. 0.00 min
 Lab File: VU033821.D
 Acq: 15 Aug 2019 19:42

Tgt Ion:112 Resp: 415655
 Ion Ratio Lower Upper
 112 100
 114 30.2 22.5 41.9
 77 56.8 45.4 68.0





#52

Ethylbenzene

Concen: 51.474 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

Instrument :

MSVOA_U

ClientSampleId :

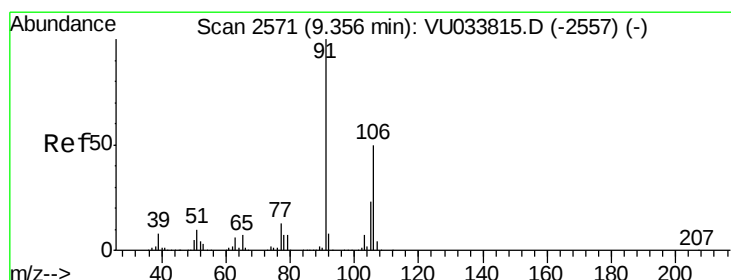
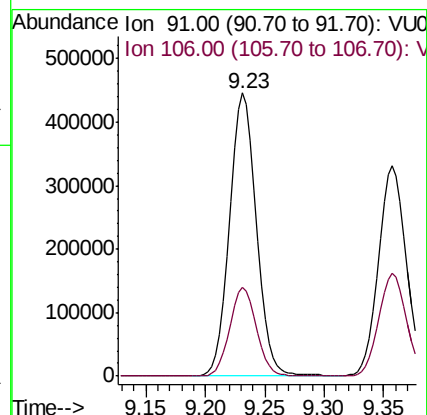
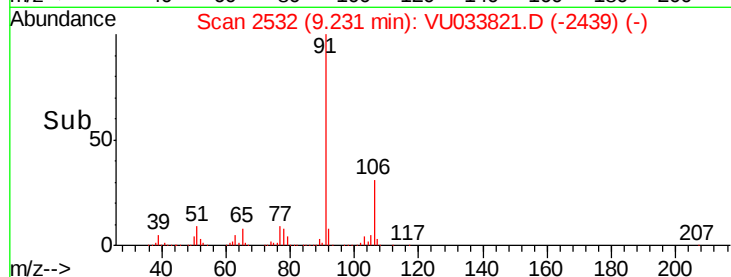
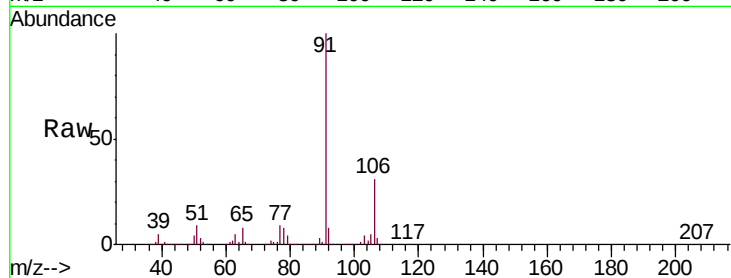
VSTD05044

Tgt Ion: 91 Resp: 698343

Ion Ratio Lower Upper

91 100

106 31.4 21.8 40.6



#53

m,p-Xylene

Concen: 51.805 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU033821.D

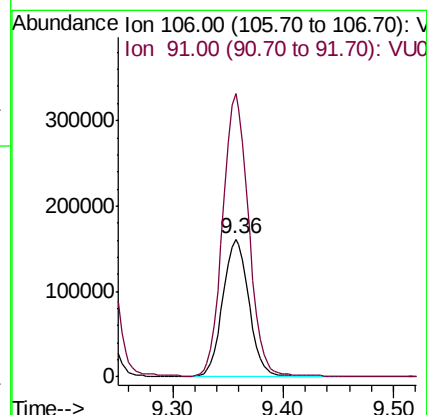
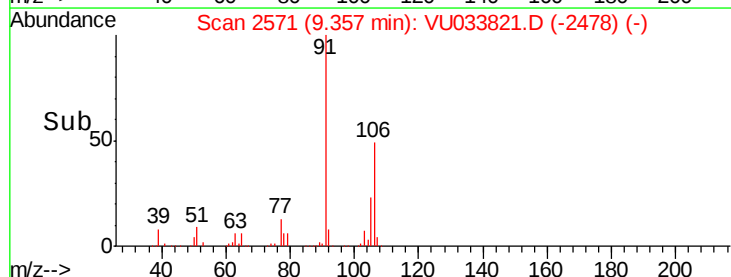
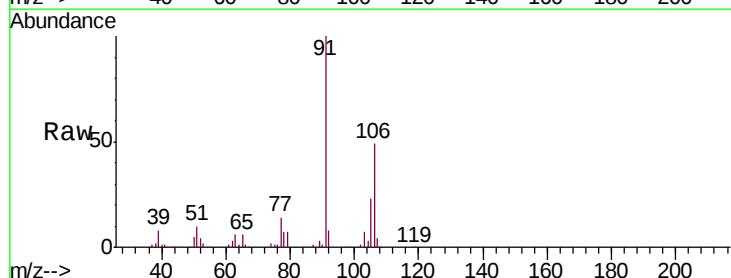
Acq: 15 Aug 2019 19:42

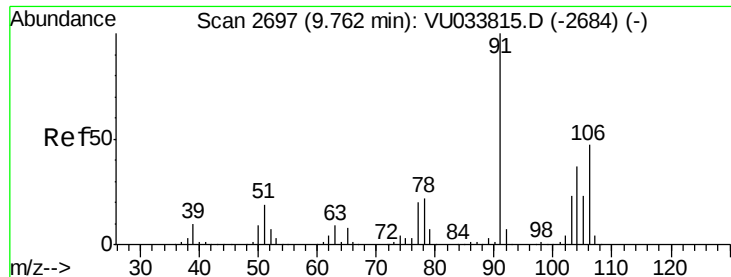
Tgt Ion: 106 Resp: 263080

Ion Ratio Lower Upper

106 100

91 205.3 140.9 261.7





#54

o-xylene

Concen: 52.786 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

Instrument :

MSVOA_U

ClientSampleId :

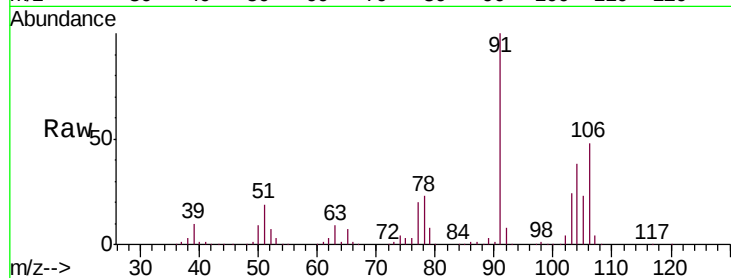
VSTD05044

Tgt Ion:106 Resp: 259742

Ion Ratio Lower Upper

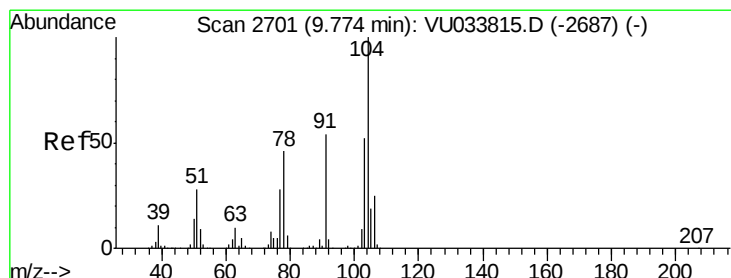
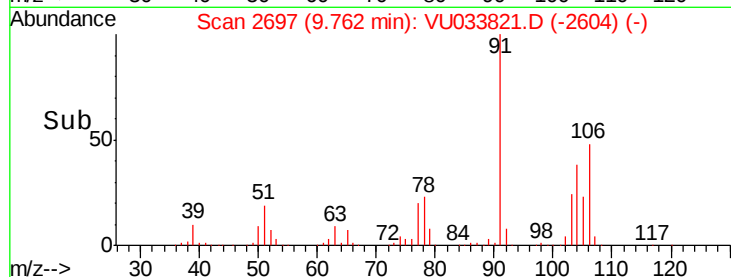
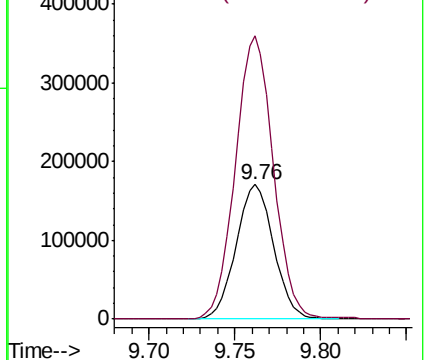
106 100

91 210.2 147.8 274.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 53.611 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU033821.D

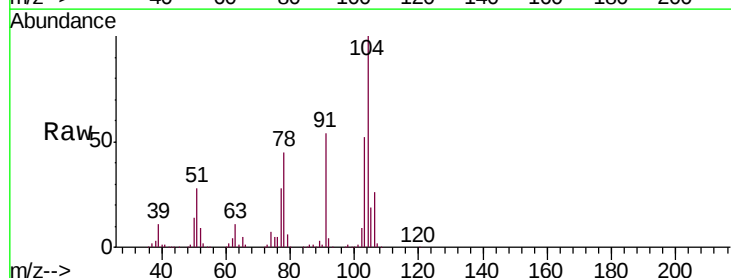
Acq: 15 Aug 2019 19:42

Tgt Ion:104 Resp: 452009

Ion Ratio Lower Upper

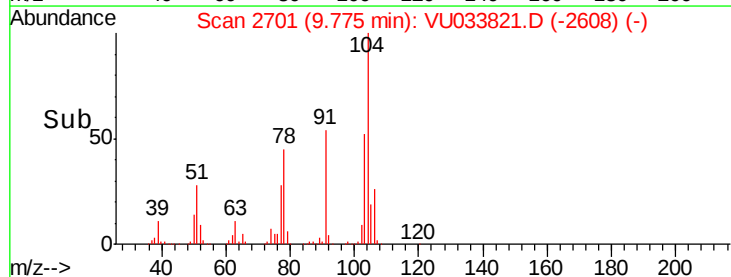
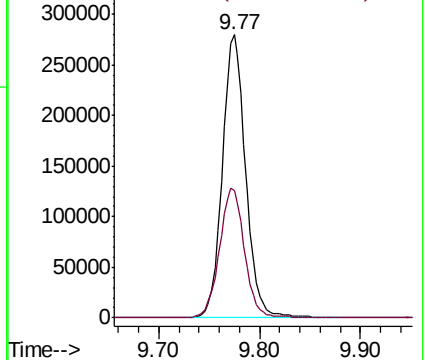
104 100

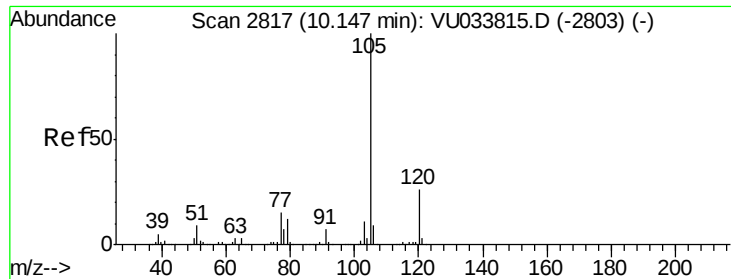
78 45.1 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.451 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

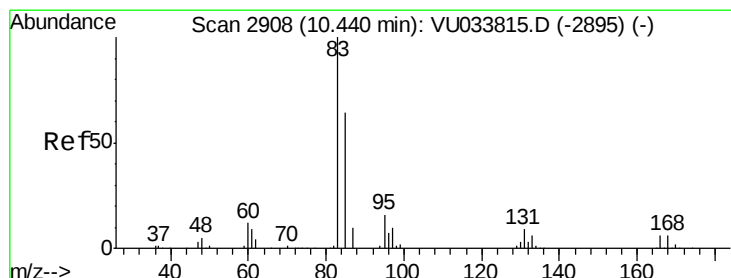
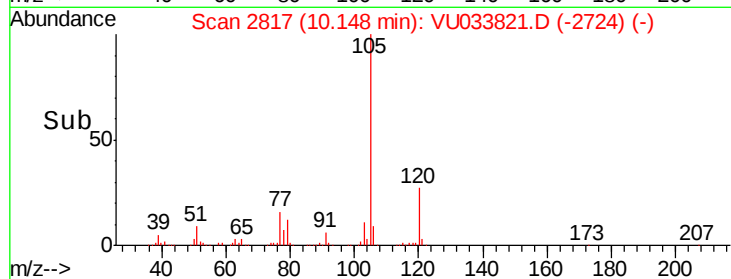
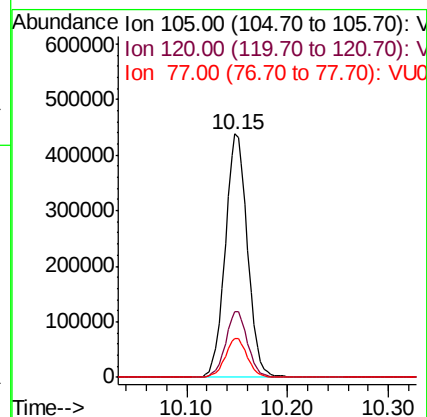
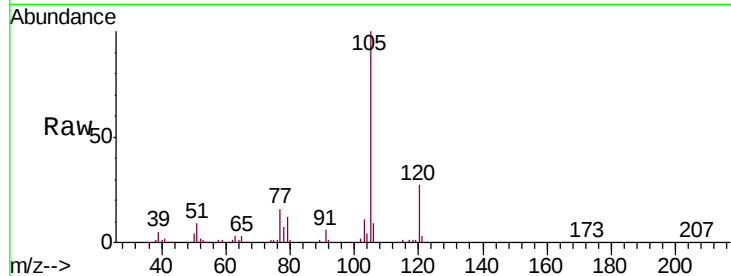
Tgt Ion: 105 Resp: 674829

Ion Ratio Lower Upper

105 100

120 26.6 21.4 32.0

77 15.9 12.5 18.7



#58

1,1,2,2-Tetrachloroethane

Concen: 49.909 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

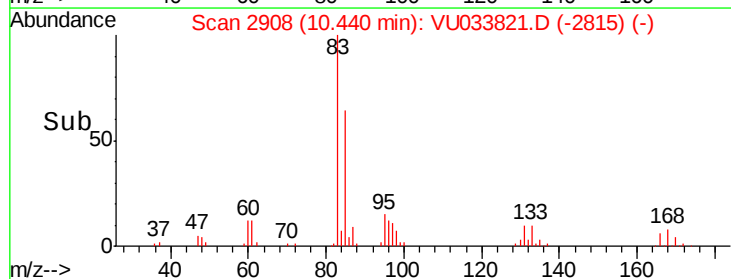
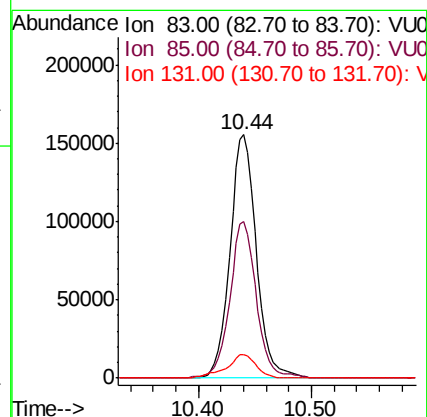
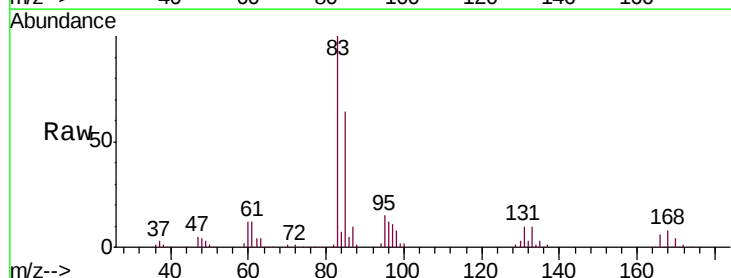
Tgt Ion: 83 Resp: 251486

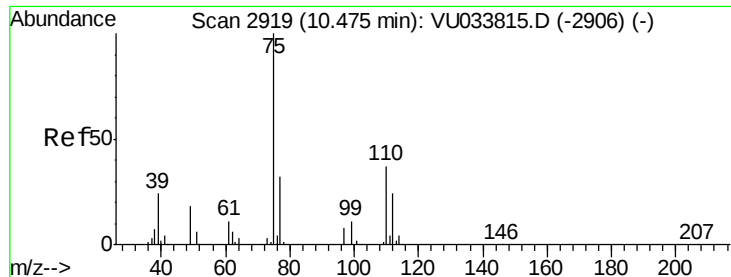
Ion Ratio Lower Upper

83 100

85 64.1 44.6 82.8

131 9.8 7.8 11.6

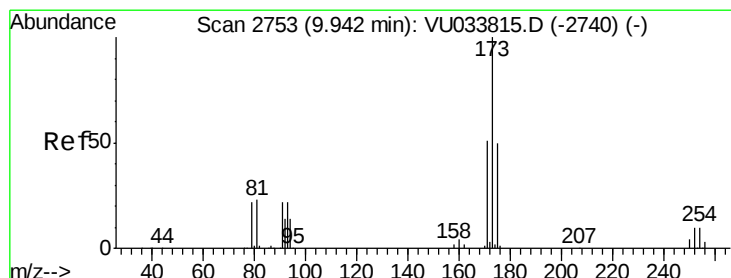
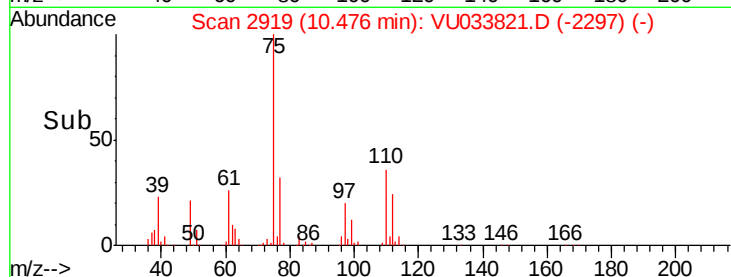
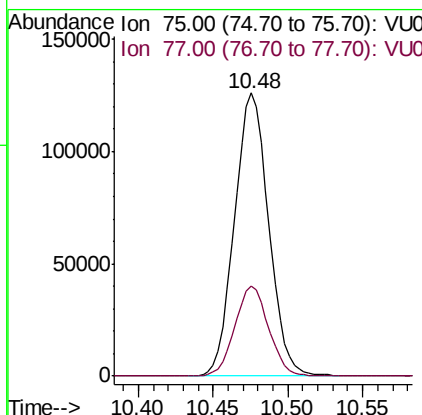
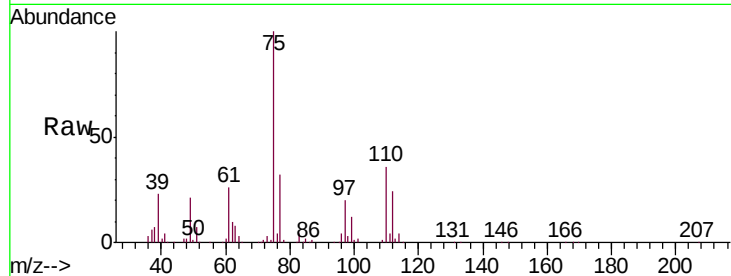




#59
 1,2,3-Trichloropropane
 Concen: 50.036 ug/L
 RT: 10.48 min Scan# 2919
 Delta R.T. 0.00 min
 Lab File: VU033821.D
 Acq: 15 Aug 2019 19:42

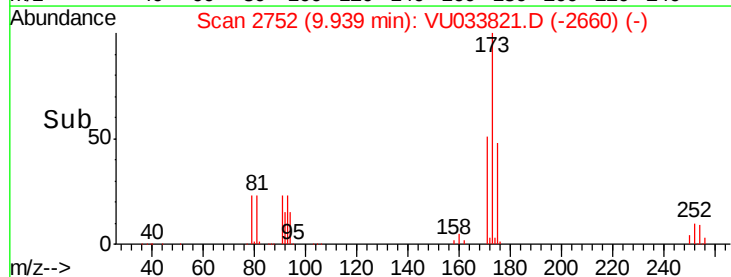
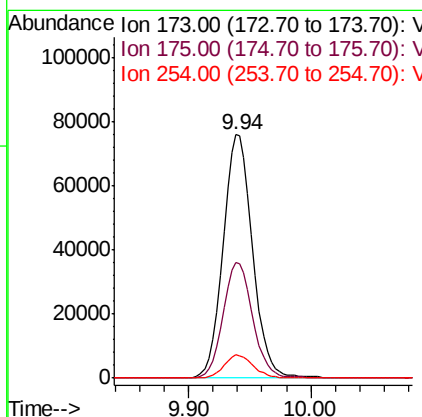
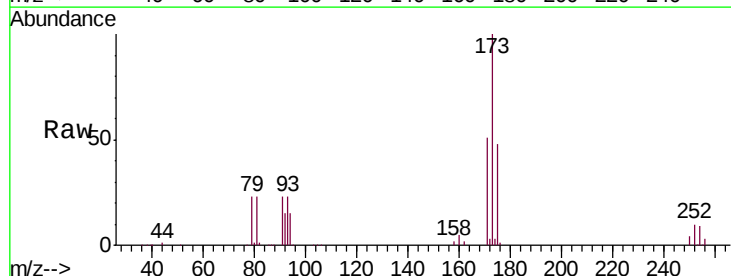
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

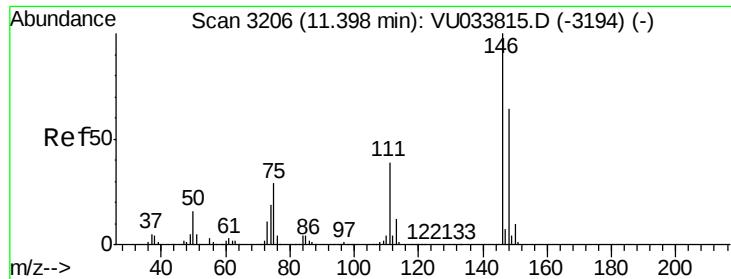
Tgt Ion: 75 Resp: 201023
 Ion Ratio Lower Upper
 75 100
 77 31.5 26.0 39.0



#61
 Bromoform
 Concen: 48.949 ug/L
 RT: 9.94 min Scan# 2752
 Delta R.T. -0.00 min
 Lab File: VU033821.D
 Acq: 15 Aug 2019 19:42

Tgt Ion: 173 Resp: 128716
 Ion Ratio Lower Upper
 173 100
 175 47.3 38.8 58.2
 254 9.3 7.4 11.0





#62

1,3-Dichlorobenzene

Concen: 49.308 ug/L

RT: 11.40 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

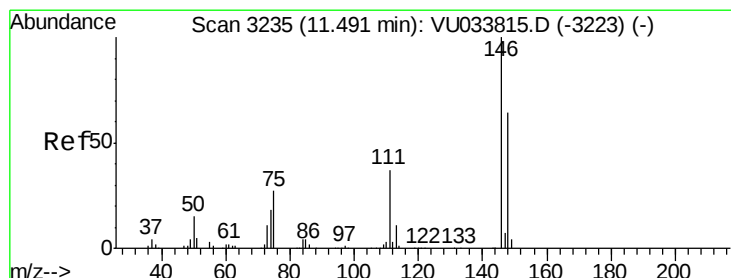
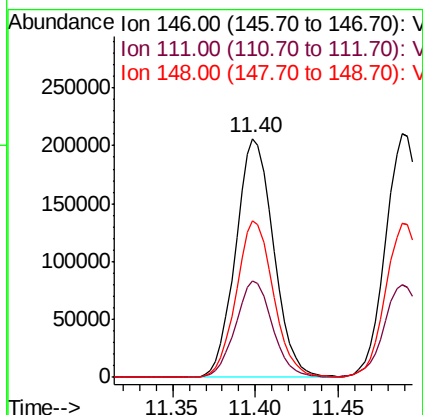
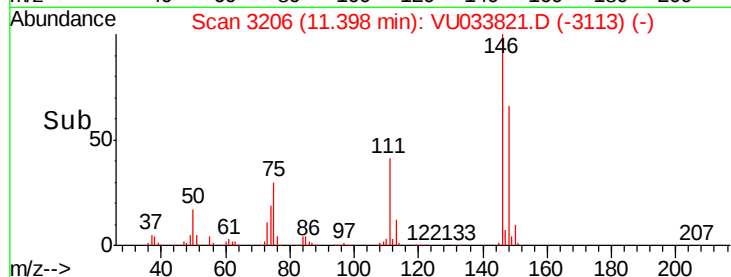
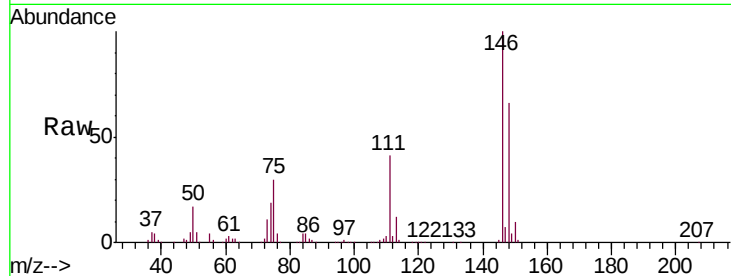
Tgt Ion:146 Resp: 326695

Ion Ratio Lower Upper

146 100

111 40.5 28.1 52.1

148 65.5 45.2 84.0



#63

1,4-Dichlorobenzene

Concen: 48.340 ug/L

RT: 11.49 min Scan# 3234

Delta R.T. -0.00 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

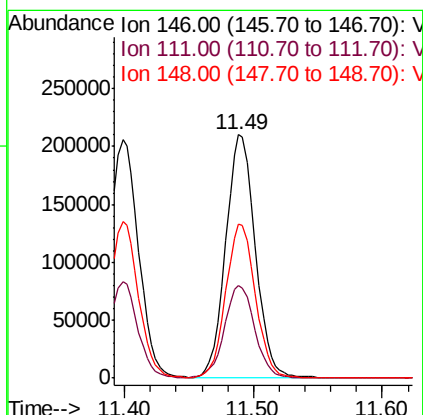
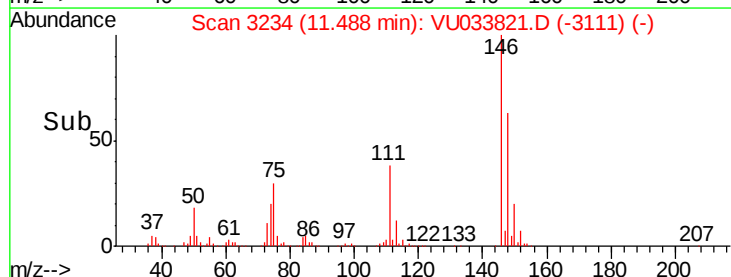
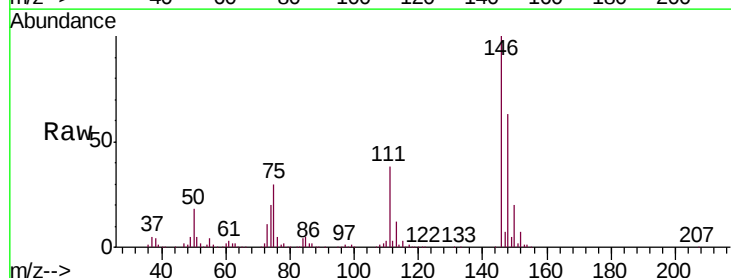
Tgt Ion:146 Resp: 331565

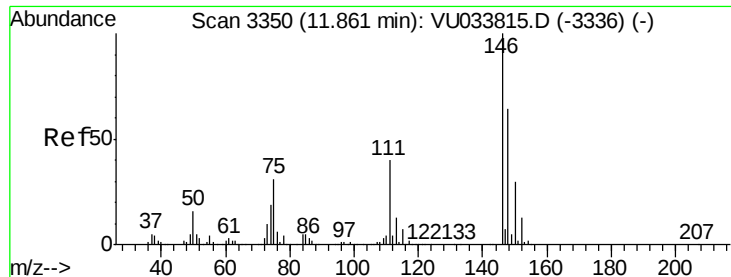
Ion Ratio Lower Upper

146 100

111 38.3 27.0 50.2

148 63.1 44.5 82.7

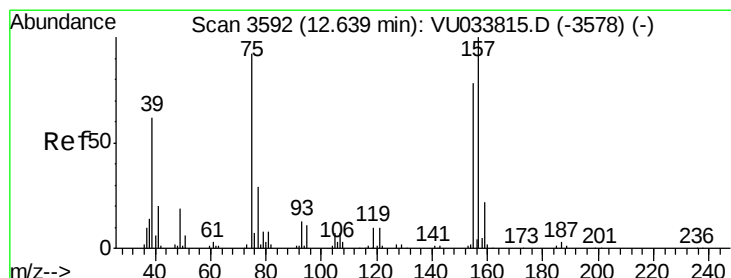
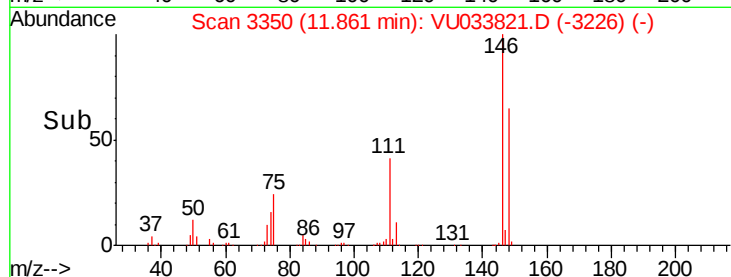
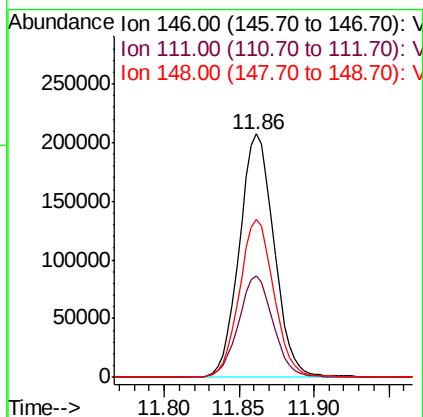
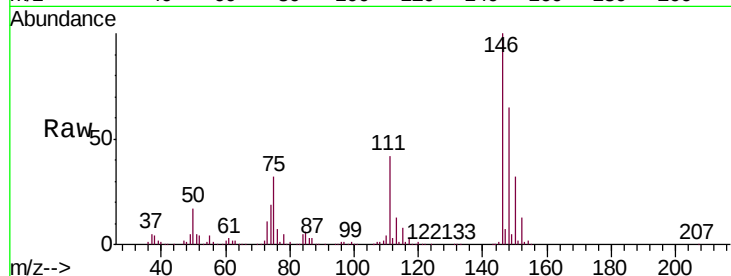




#65
 1,2-Dichlorobenzene
 Concen: 50.327 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU033821.D
 Acq: 15 Aug 2019 19:42

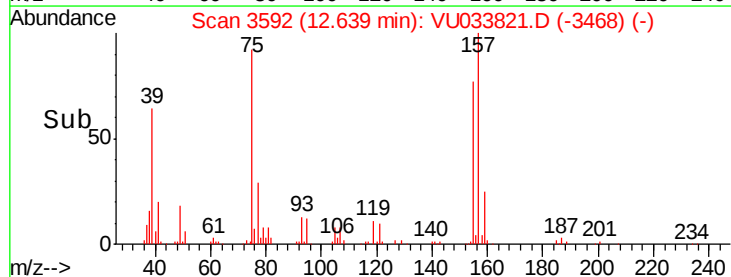
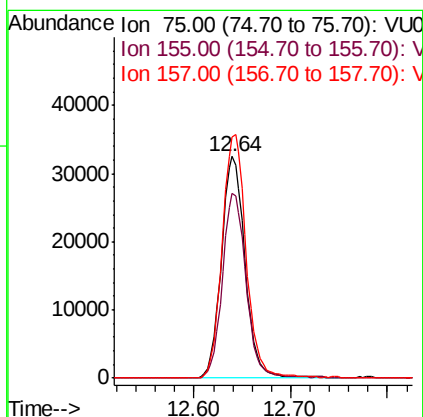
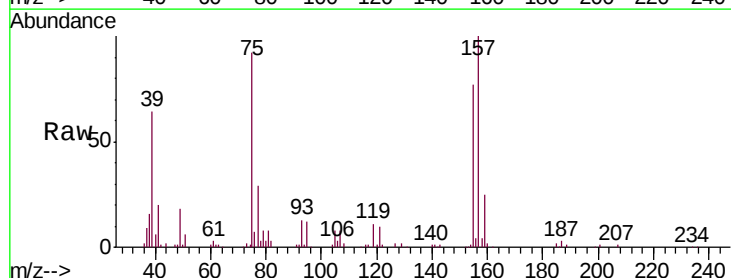
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

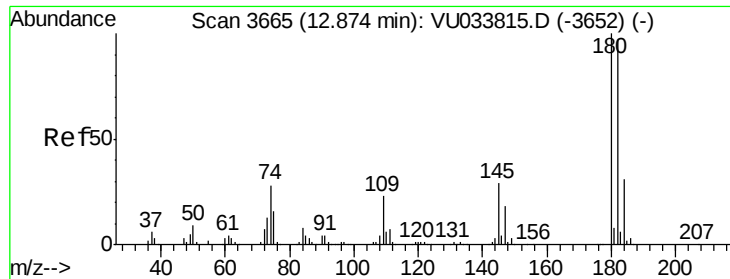
Tgt Ion: 146 Resp: 334256
 Ion Ratio Lower Upper
 146 100
 111 41.6 33.8 50.6
 148 65.0 51.0 76.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 50.245 ug/L
 RT: 12.64 min Scan# 3592
 Delta R.T. 0.00 min
 Lab File: VU033821.D
 Acq: 15 Aug 2019 19:42

Tgt Ion: 75 Resp: 55486
 Ion Ratio Lower Upper
 75 100
 155 83.7 67.5 101.3
 157 108.9 87.7 131.5

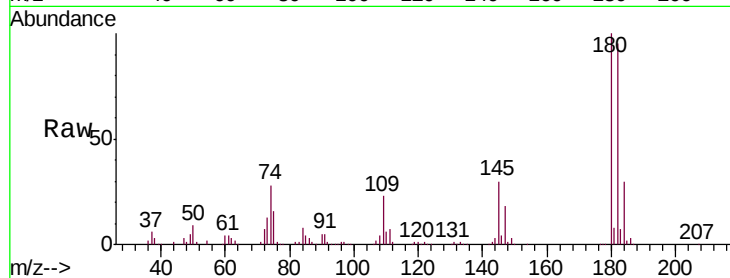




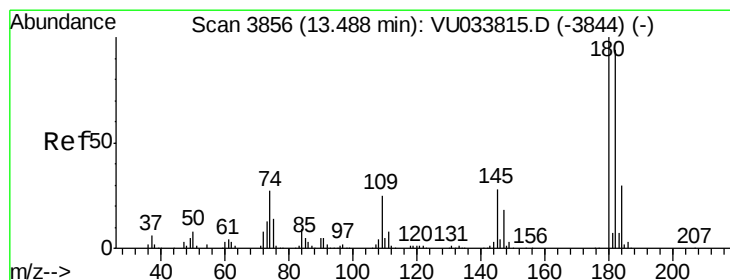
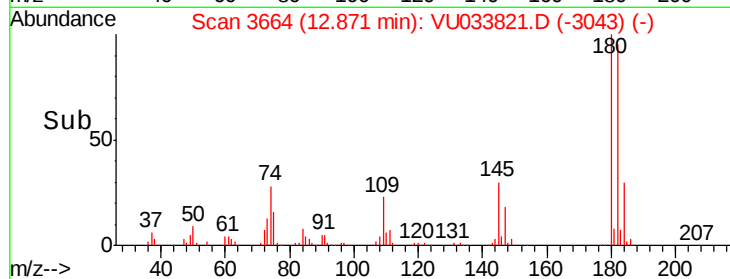
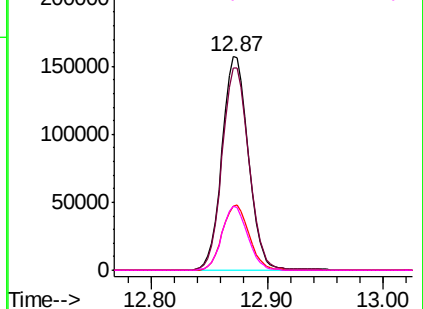
#67
 1,3,5-Trichlorobenzene
 Concen: 48.497 ug/L
 RT: 12.87 min Scan# 3664
 Delta R.T. -0.00 min
 Lab File: VU033821.D
 Acq: 15 Aug 2019 19:42

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

Tgt Ion:	180	Resp:	247853
Ion Ratio	Lower	Upper	
180	100		
182	95.9	75.8	113.8
184	30.8	23.8	35.8
145	29.2	22.9	34.3

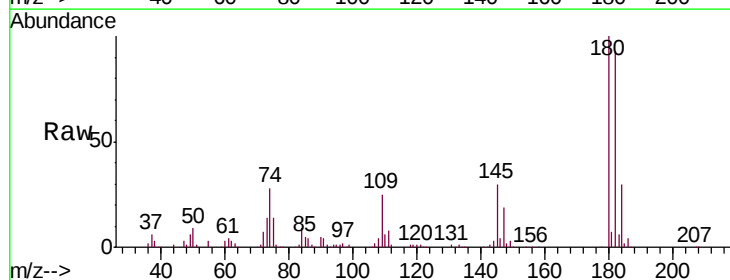


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

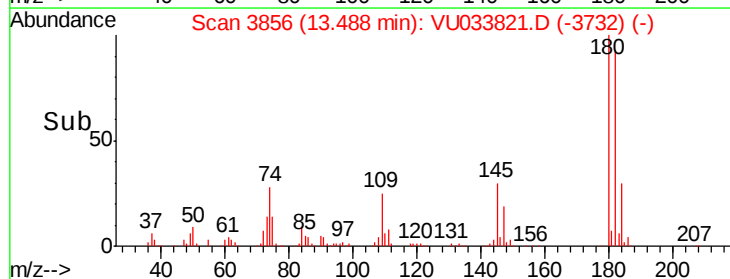
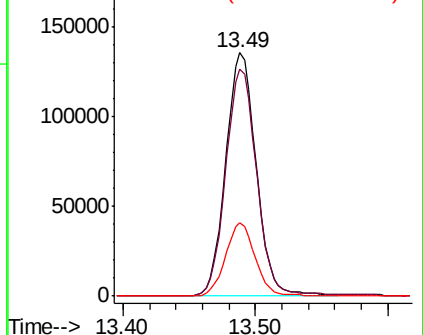


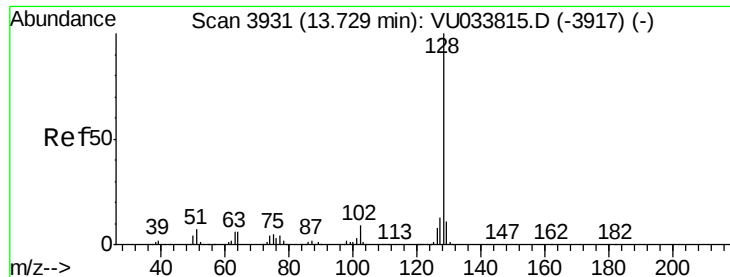
#68
 1,2,4-trichlorobenzene
 Concen: 52.069 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU033821.D
 Acq: 15 Aug 2019 19:42

Tgt Ion:	180	Resp:	217900
Ion Ratio	Lower	Upper	
180	100		
182	94.7	76.2	114.2
145	29.2	23.8	35.8



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: 56.587 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. 0.00 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

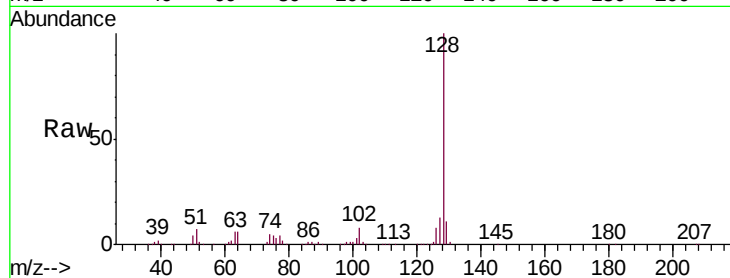
Tgt Ion:128 Resp: 653590

Ion Ratio Lower Upper

128 100

127 13.1 10.7 16.1

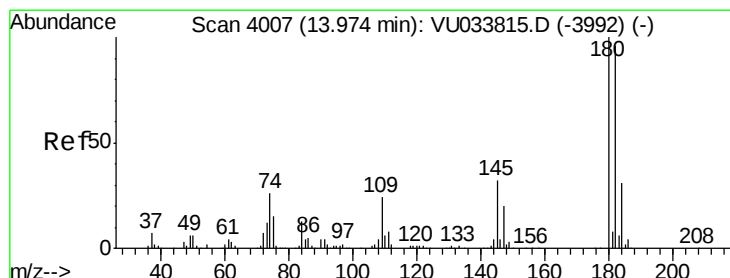
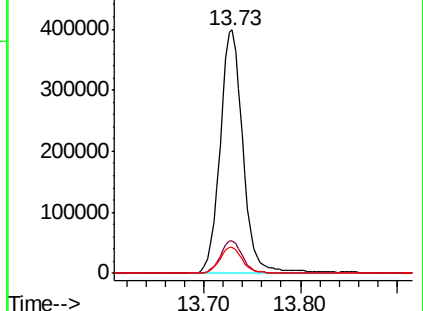
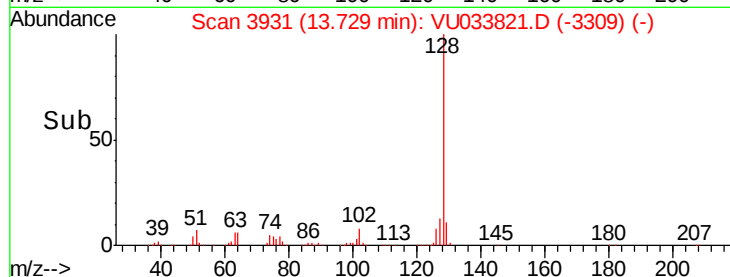
129 10.7 8.6 12.8



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: 53.445 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. 0.00 min

Lab File: VU033821.D

Acq: 15 Aug 2019 19:42

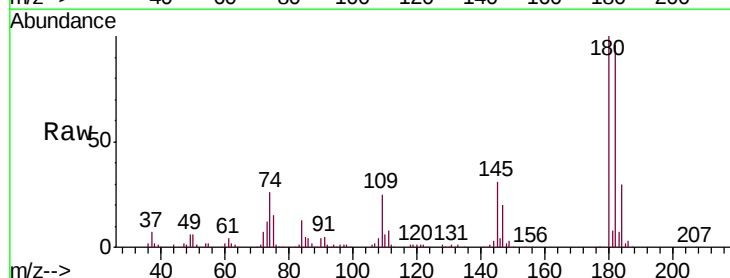
Tgt Ion:180 Resp: 232131

Ion Ratio Lower Upper

180 100

182 96.2 75.9 113.9

145 31.2 24.5 36.7



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

