

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073019\
 Data File : VU033485.D
 Acq On : 30 Jul 2019 11:24
 Operator : JC/SP
 Sample : MDL04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

MMdadoda
 8/1/2019 3:14:49 PM

Quant Time: Jul 31 08:59:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM072919W.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jul 31 08:44:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	294129	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	299905	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	143524	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	116055	43.46	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.92%
7) Chloroethane-d5	1.67	69	102250	46.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.68%
11) 1,1-Dichloroethene-d2	2.26	63	186201	38.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	76.24%
21) 2-Butanone-d5	4.15	46	136577	89.24	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.24%
24) Chloroform-d	4.62	84	174862	43.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.50%
26) 1,2-Dichloroethane-d4	5.29	65	126466	49.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.08%
32) Benzene-d6	5.32	84	384697	47.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.56%
36) 1,2-Dichloropropane-d6	6.31	67	122367	49.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.00%
41) Toluene-d8	7.55	98	351889	46.49	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.98%
43) trans-1,3-Dichloropropene-	7.83	79	56245	46.09	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.18%
47) 2-Hexanone-d5	8.29	63	106622	102.78	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	102.78%
56) 1,1,2,2-Tetrachloroethane-	10.41	84	182927	47.73	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.46%
66) 1,2-Dichlorobenzene-d4	11.85	152	138387	50.18	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.36%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	7497	2.555 ug/L	100
3) Chloromethane	1.32	50	7943	2.711 ug/L	99
5) Vinyl chloride	1.40	62	9004	2.687 ug/L #	73
6) Bromomethane	1.62	94	6079	2.596 ug/L	93
8) Chloroethane	1.69	64	5459	2.656 ug/L	100
9) Trichlorofluoromethane	1.87	101	11320	2.576 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	7244	3.280 ug/L	88
12) 1,1-Dichloroethene	2.27	96	7627	3.544 ug/L #	1
13) Acetone	2.31	43	9363	6.173 ug/L	94
14) Carbon disulfide	2.46	76	16178	2.523 ug/L #	94
15) Methyl Acetate	2.60	43	6390	2.627 ug/L	96
16) Methylene chloride	2.68	84	6542	2.767 ug/L	98
17) trans-1,2-Dichloroethene	2.96	96	5429	2.540 ug/L	97
18) Methyl tert-butyl Ether	2.98	73	15308	2.427 ug/L	100
19) 1,1-Dichloroethane	3.42	63	9981	2.480 ug/L	94
20) cis-1,2-Dichloroethene	4.20	96	6269	2.657 ug/L	99
22) 2-Butanone	4.25	43	8707	4.831 ug/L	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.53	128	3125m	2.494	ug/L	
25) Chloroform	4.65	83	29992	7.029	ug/L	96
27) 1,2-Dichloroethane	5.39	62	8810	2.659	ug/L	97
29) Cyclohexane	4.97	56	7253	2.201	ug/L #	88
30) 1,1,1-Trichloroethane	4.89	97	9262	2.594	ug/L	99
31) Carbon tetrachloride	5.11	117	7851	2.470	ug/L	98
33) Benzene	5.37	78	23292	2.598	ug/L	100
34) Trichloroethene	6.17	95	6110	2.616	ug/L	98
35) Methylcyclohexane	6.40	83	8668	2.441	ug/L	94
37) 1,2-Dichloropropane	6.42	63	6223	2.581	ug/L	99
38) Bromodichloromethane	6.74	83	8120	2.559	ug/L	93
39) cis-1,3-Dichloropropene	7.25	75	9383	2.610	ug/L	96
40) 4-Methyl-2-pentanone	7.44	43	14338	4.513	ug/L	97
42) Toluene	7.62	91	24635	2.554	ug/L	97
44) trans-1,3-Dichloropropene	7.86	75	8697	2.665	ug/L	91
45) 1,1,2-Trichloroethane	8.05	97	5816	2.529	ug/L	94
46) Tetrachloroethene	8.21	164	4762	2.506	ug/L	97
48) 2-Hexanone	8.35	43	17036	6.582	ug/L	92
49) Dibromochloromethane	8.46	129	6382	2.479	ug/L	98
50) 1,2-Dibromoethane	8.57	107	6581	2.638	ug/L #	97
51) Chlorobenzene	9.10	112	17050	2.660	ug/L	97
52) Ethylbenzene	9.23	91	24835	2.375	ug/L	97
53) m,p-Xylene	9.36	106	8859	2.253	ug/L	100
54) o-xylene	9.77	106	8480	2.199	ug/L	97
55) Styrene	9.78	104	13105	2.003	ug/L	91
57) 1,1,2,2-Tetrachloroethane	10.44	83	11069	2.708	ug/L	98
59) Bromoform	9.95	173	4675	2.604	ug/L	99
60) 1,2,3-Trichloropropane	10.48	75	8724	2.984	ug/L	94
61) Isopropylbenzene	10.15	105	22137	2.408	ug/L	98
62) 1,3,5-Trimethylbenzene	10.76	105	16531	2.219	ug/L	97
63) 1,2,4-Trimethylbenzene	11.13	105	15701	2.125	ug/L	97
64) 1,3-Dichlorobenzene	11.40	146	12460	2.659	ug/L	96
65) 1,4-Dichlorobenzene	11.49	146	13006	2.687	ug/L	98
67) 1,2-Dichlorobenzene	11.86	146	12632	2.691	ug/L	99
68) 1,2-Dibromo-3-chloropropan	12.64	75	2006	2.468	ug/L	90
69) 1,3,5-Trichlorobenzene	12.88	180	8338	2.344	ug/L	99
70) 1,2,4-trichlorobenzene	13.50	180	5926	1.996	ug/L #	94
71) Naphthalene	13.74	128	14890m	1.734	ug/L	
72) 1,2,3-Trichlorobenzene	13.98	180	6073	1.952	ug/L	99

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

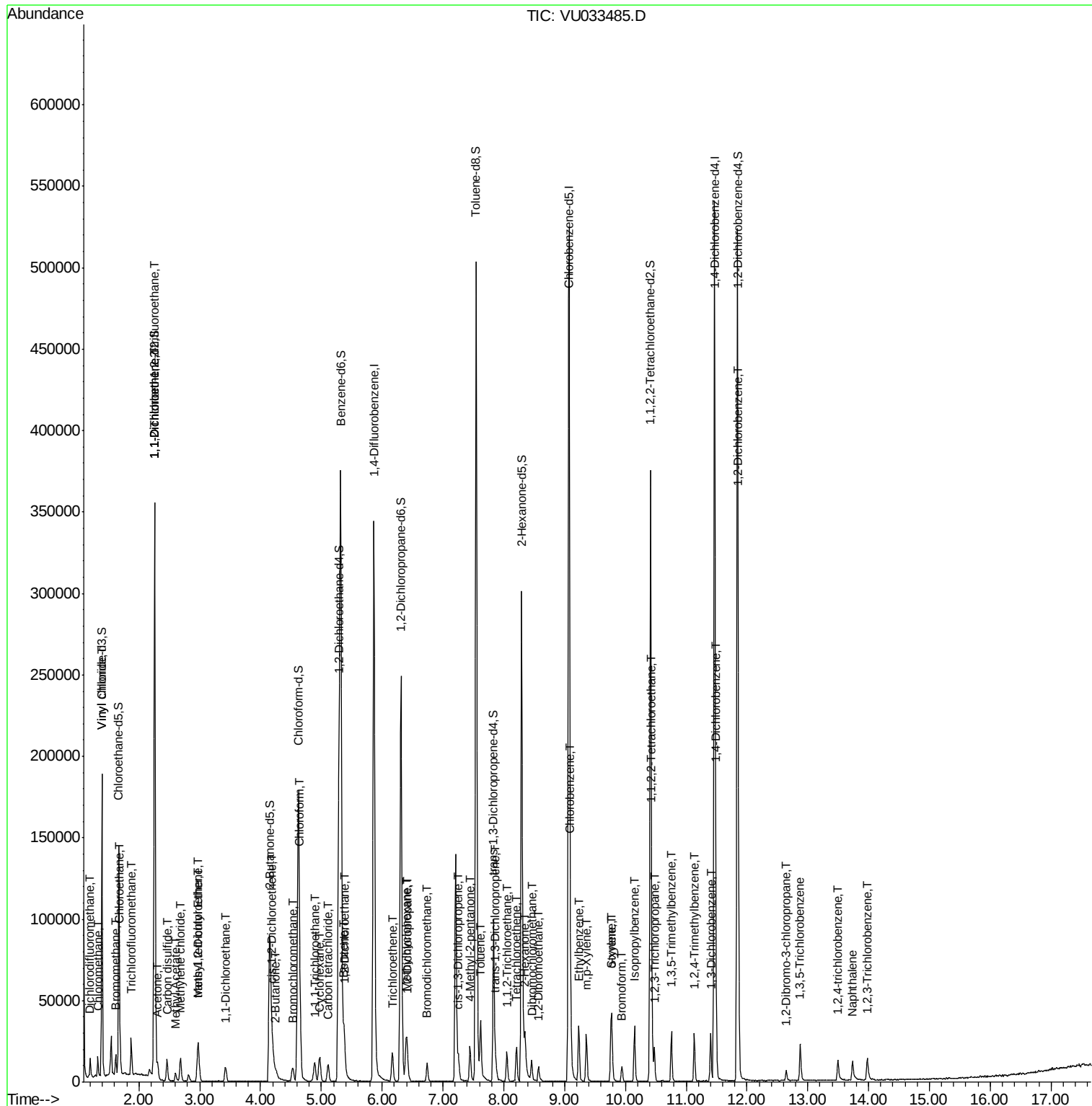
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU073019\
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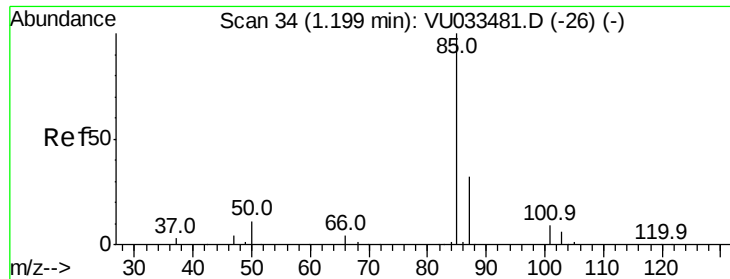
Instrument :
MSVOA_U
ClientSampleId :
MDL04

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#2

Dichlorodifluoromethane

Concen: 2.555 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033485.D

Acq: 30 Jul 2019 11:24

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 85 Resp: 7497

Ion Ratio Lower Upper

85 100

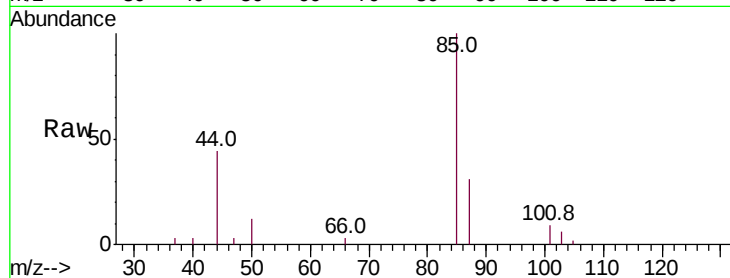
87 31.8 25.7 38.5

Manual Integrations

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Abundance Ion 85.00 (84.70 to 85.70): VU033485.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033485.D (-26) (-)

8000

6000

4000

2000

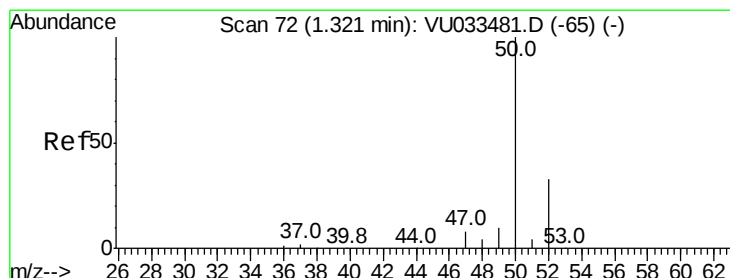
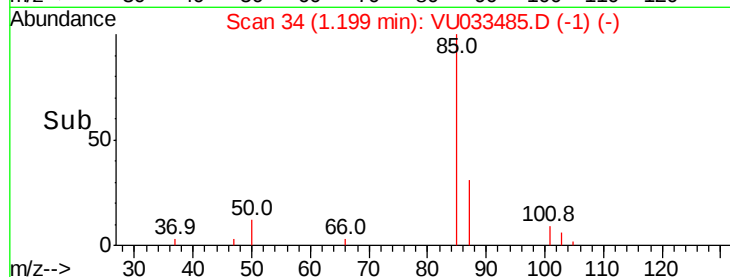
0

1.15

1.20

1.25

Time-->



#3

Chloromethane

Concen: 2.711 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU033485.D

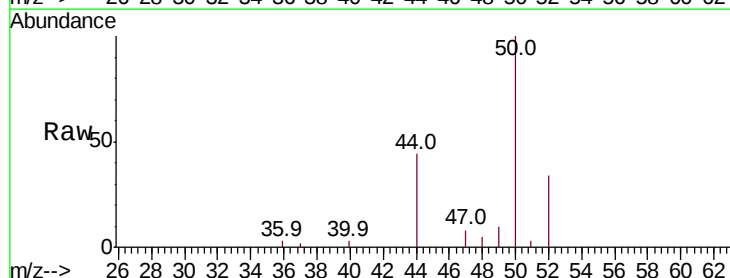
Acq: 30 Jul 2019 11:24

Tgt Ion: 50 Resp: 7943

Ion Ratio Lower Upper

50 100

52 33.9 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU033485.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033485.D (-1) (-)

8000

6000

4000

2000

0

1.28

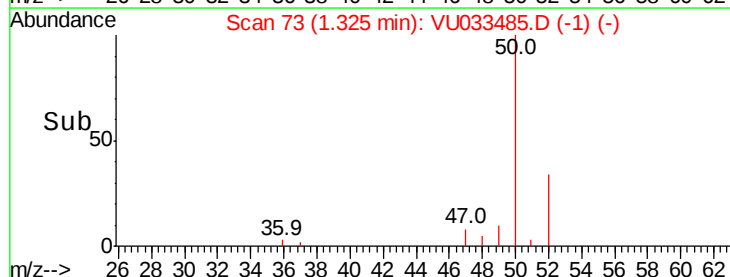
1.30

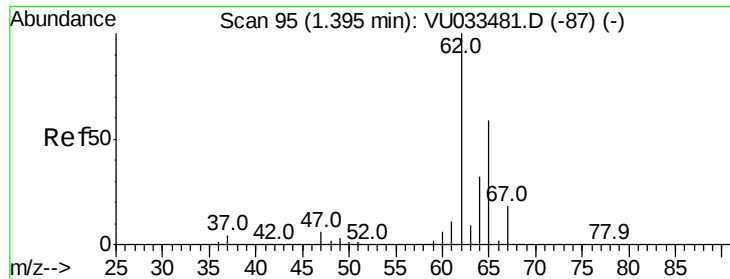
1.32

1.34

1.36

Time-->





#5

Vinyl chloride

Concen: 2.687 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033485.D

Acq: 30 Jul 2019 11:24

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 62 Resp: 9004

Ion Ratio Lower Upper

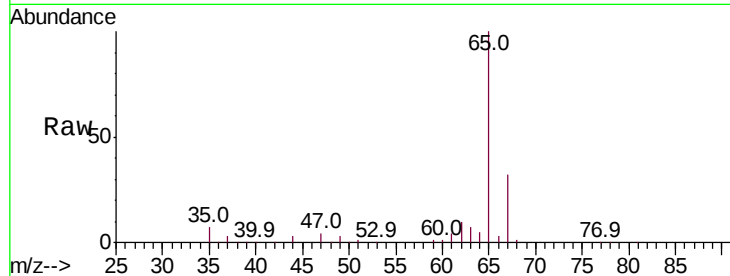
62 100

64 47.9 23.0 42.6#

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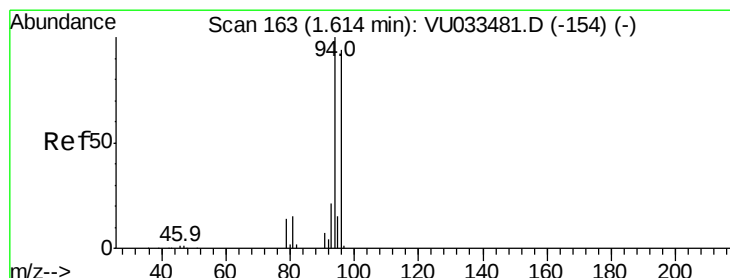
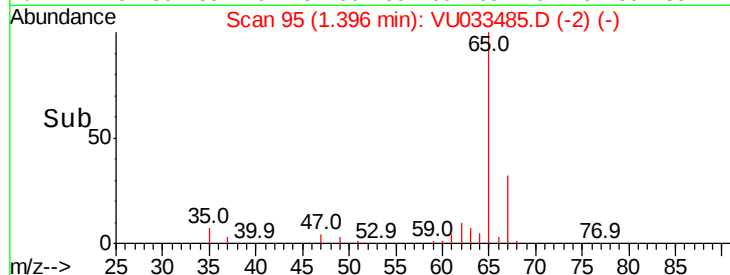
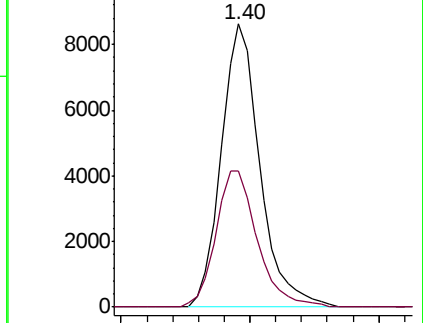
MMdadoda

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Abundance Ion 62.00 (61.70 to 62.70): VU033485.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU033485.D (-87) (-)



#6

Bromomethane

Concen: 2.596 ug/L

RT: 1.62 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU033485.D

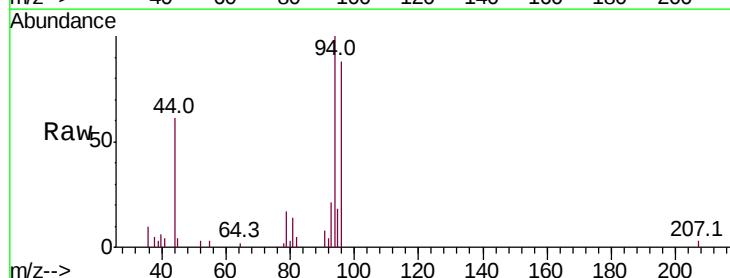
Acq: 30 Jul 2019 11:24

Tgt Ion: 94 Resp: 6079

Ion Ratio Lower Upper

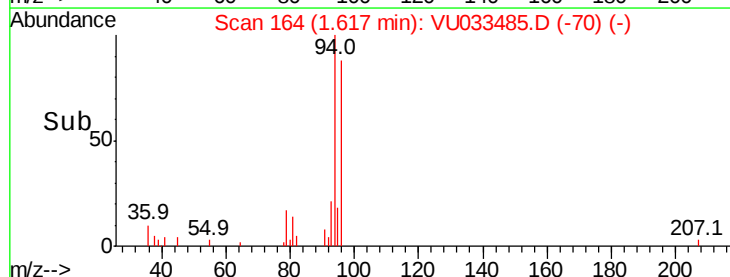
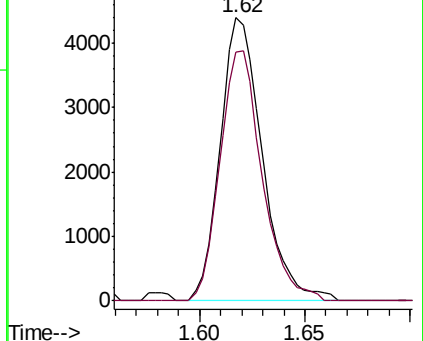
94 100

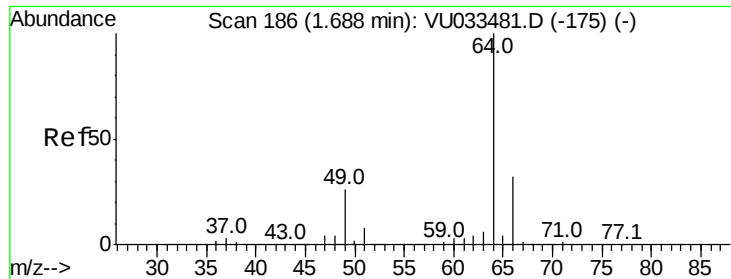
96 87.8 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VU033485.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU033485.D (-154) (-)





#8

Chloroethane

Concen: 2.656 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU033485.D

Acq: 30 Jul 2019 11:24

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 64 Resp: 5459

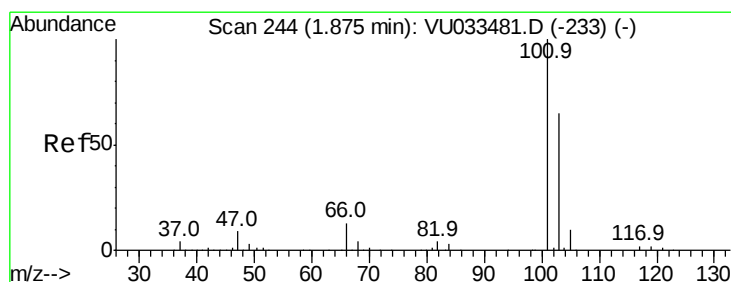
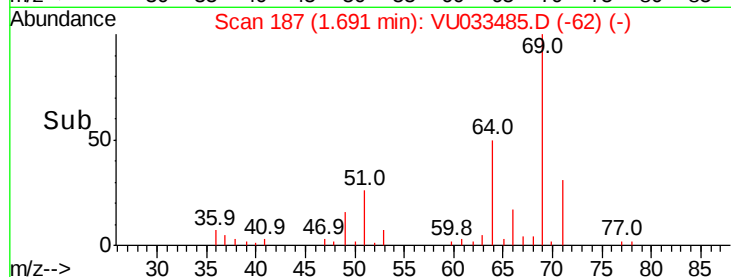
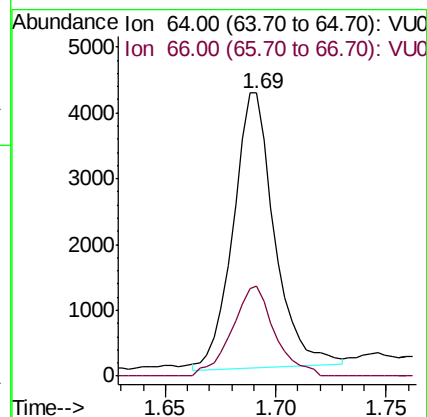
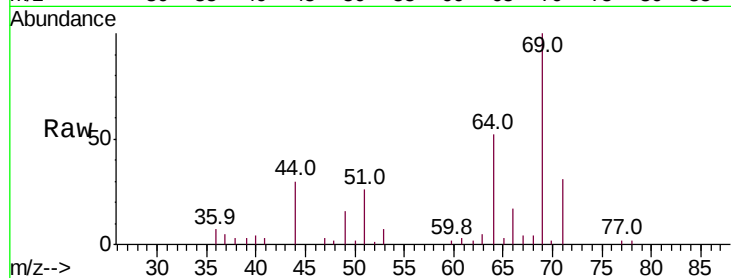
Ion Ratio Lower Upper

64 100

66 31.7 22.1 41.1

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#9

Trichlorofluoromethane

Concen: 2.576 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033485.D

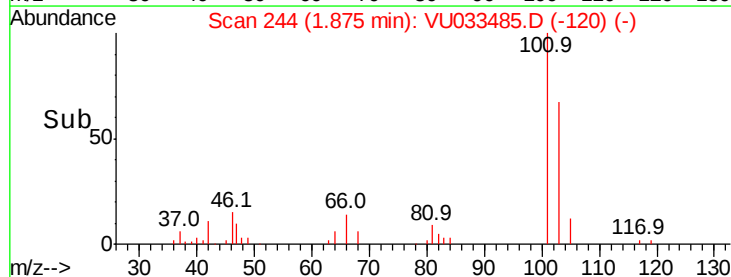
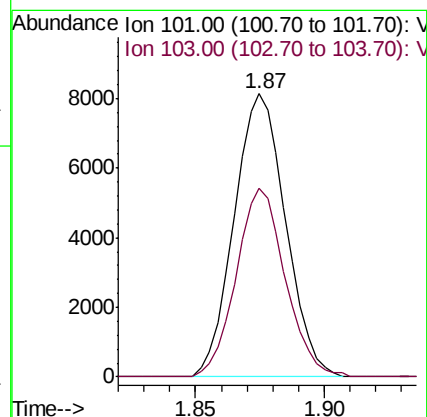
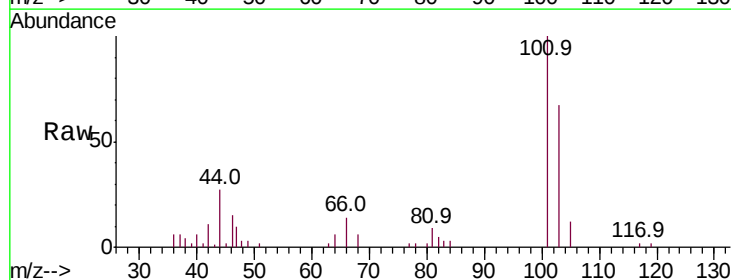
Acq: 30 Jul 2019 11:24

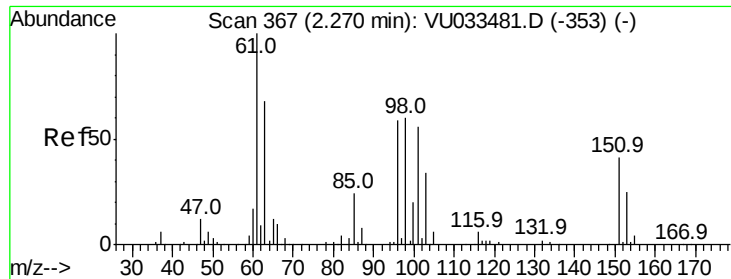
Tgt Ion: 101 Resp: 11320

Ion Ratio Lower Upper

101 100

103 63.5 51.2 76.8





#10

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

Concen: 3.280 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033485.D

Acq: 30 Jul 2019 11:24

Instrument :

MSVOA_U

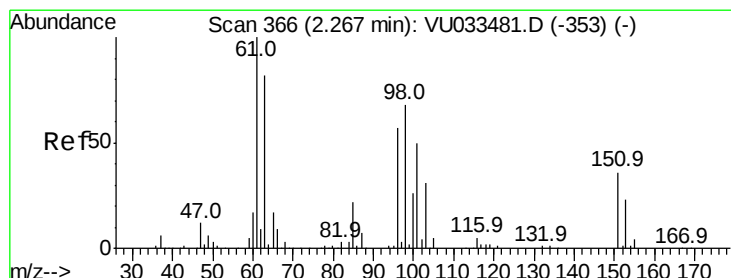
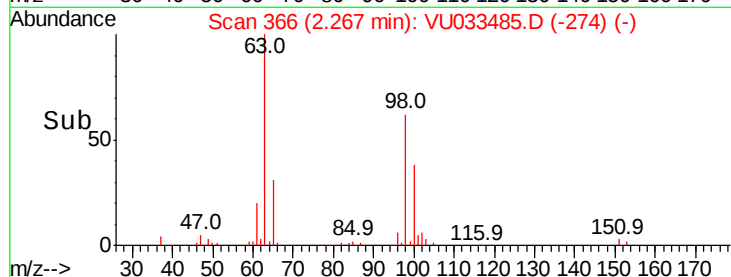
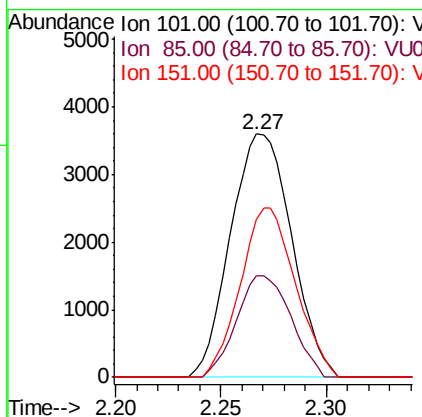
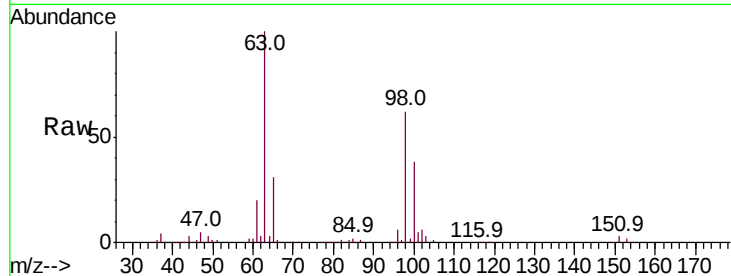
ClientSampled :

MDL04

Tot Ion:	101	Resp:	7244
Ion Ratio	Lower	Upper	
101	100		
85	37.1	35.8	53.8
151	62.9	58.6	87.8

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 3.544 ug/L

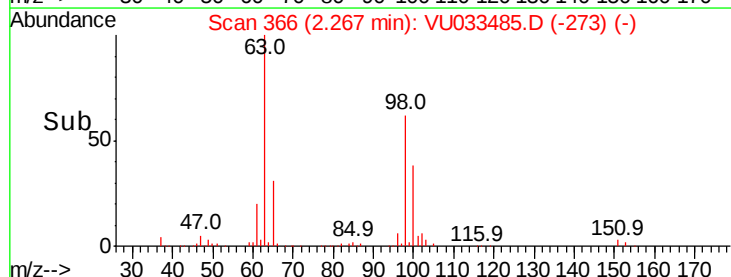
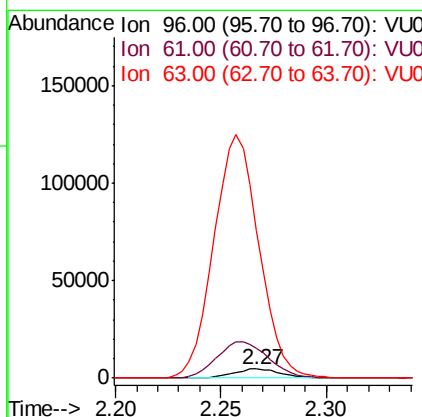
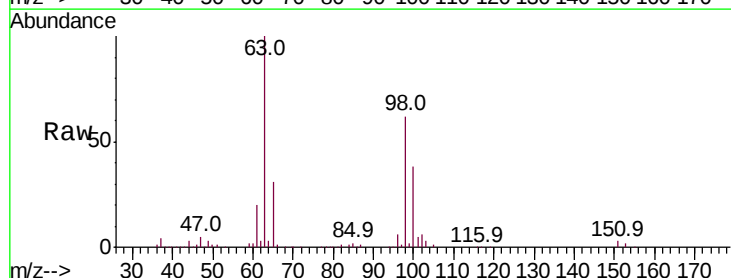
RT: 2.27 min Scan# 366

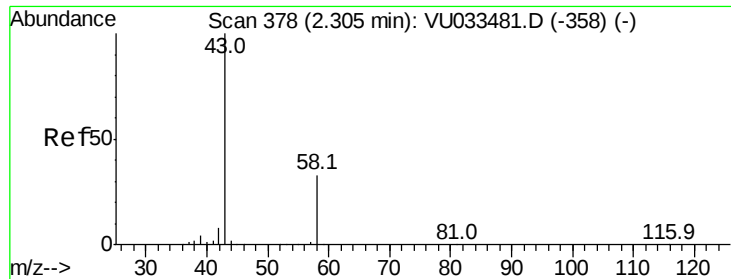
Delta R.T. 0.00 min

Lab File: VU033485.D

Acq: 30 Jul 2019 11:24

Tgt Ion:	96	Resp:	7627
Ion Ratio	Lower	Upper	
96	100		
61	322.1	124.1	230.5#
63	1611.9	101.8	189.2#





#13

Acetone

Concen: 6.173 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VU033485.D

Acq: 30 Jul 2019 11:24

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 43 Resp: 9363

Ion Ratio Lower Upper

43 100

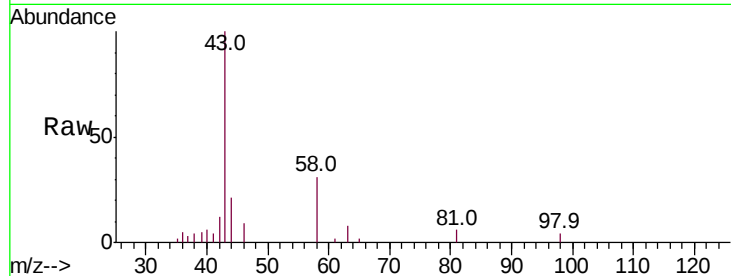
58 30.1 0.0 67.4

Manual Integrations

APPROVED

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Abundance Ion 43.00 (42.70 to 43.70): VU033485.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU033485.D (-358) (-)

2.31

6000

5000

4000

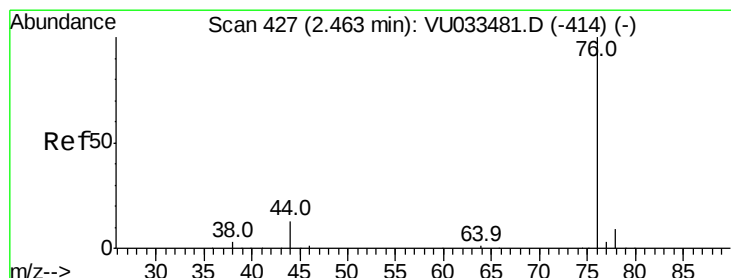
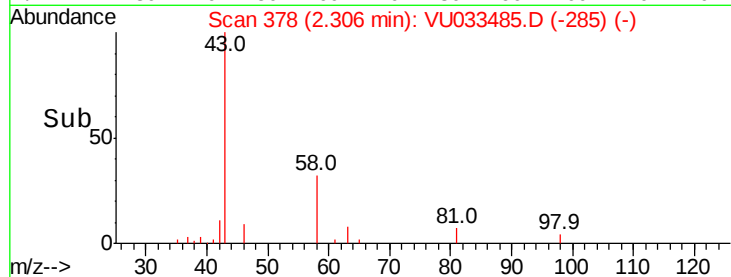
3000

2000

1000

0

Time-->



#14

Carbon disulfide

Concen: 2.523 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033485.D

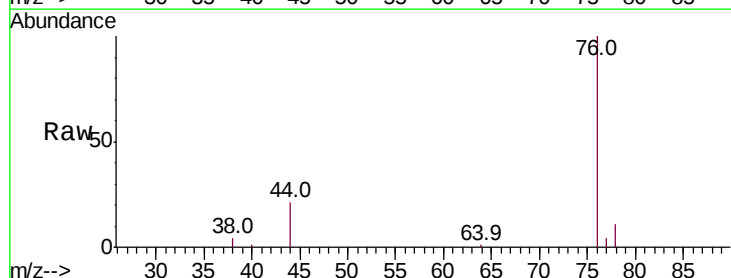
Acq: 30 Jul 2019 11:24

Tgt Ion: 76 Resp: 16178

Ion Ratio Lower Upper

76 100

78 11.3 7.2 10.8#



Abundance Ion 76.00 (75.70 to 76.70): VU033485.D (-414) (-)

Ion 78.00 (77.70 to 78.70): VU033485.D (-414) (-)

2.46

10000

8000

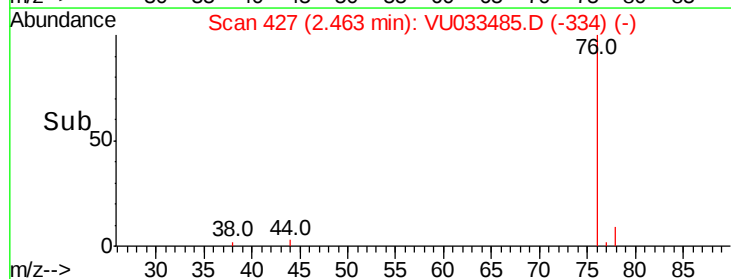
6000

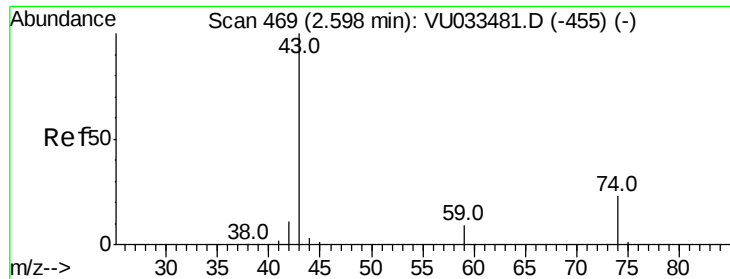
4000

2000

0

Time-->





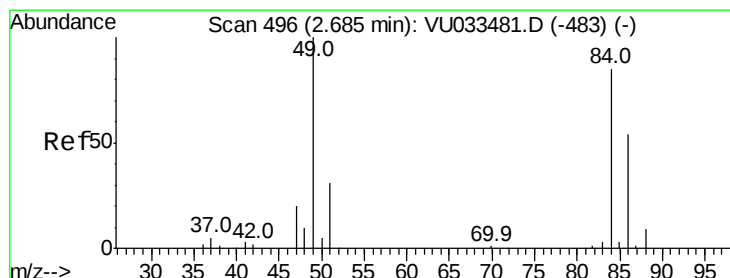
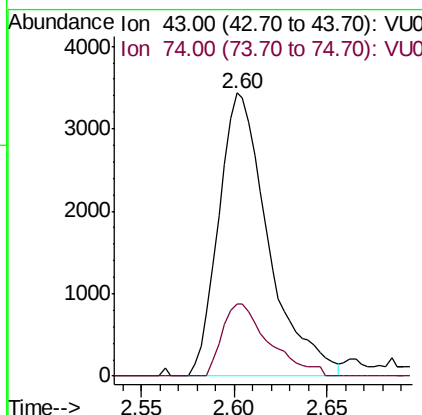
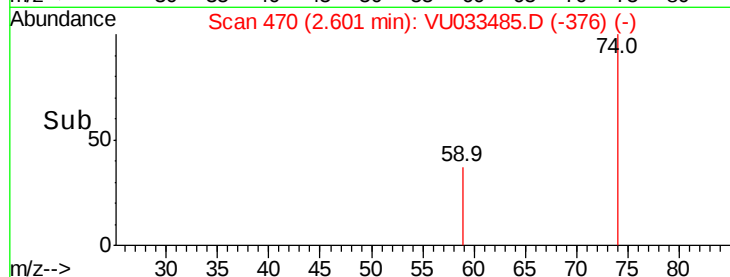
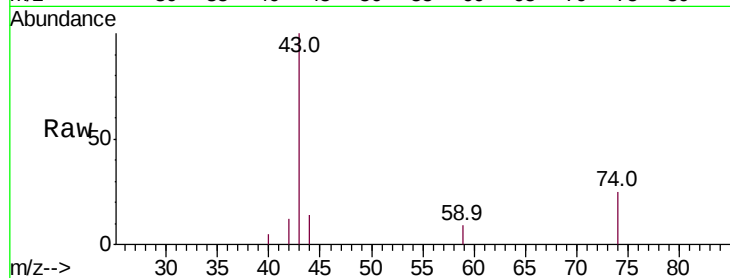
#15
Methyl Acetate
Concen: 2.627 ug/L
RT: 2.60 min Scan# 470
Delta R.T. 0.00 min
Lab File: VU033485.D
Acq: 30 Jul 2019 11:24

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion: 43 Resp: 6390
Ion Ratio Lower Upper
43 100
74 23.5 20.5 30.7

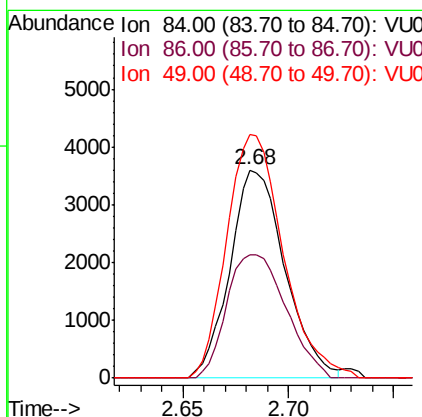
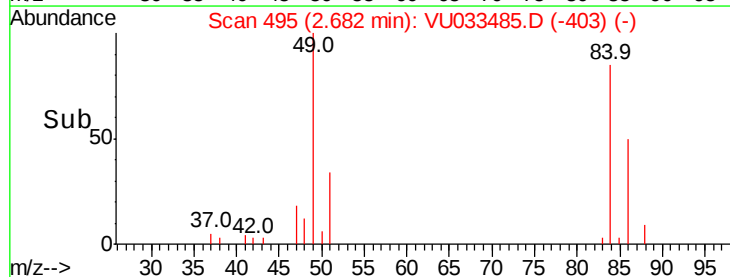
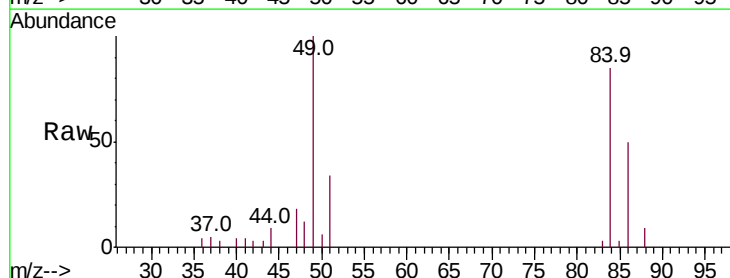
Manual Integrations
APPROVED

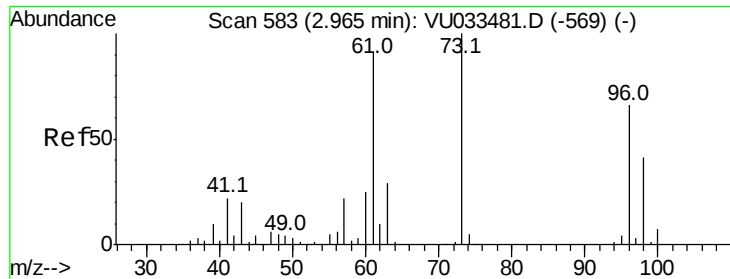
MMdadoda
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#16
Methylene chloride
Concen: 2.767 ug/L
RT: 2.68 min Scan# 495
Delta R.T. -0.00 min
Lab File: VU033485.D
Acq: 30 Jul 2019 11:24

Tgt Ion: 84 Resp: 6542
Ion Ratio Lower Upper
84 100
86 59.1 44.2 82.0
49 117.1 82.3 152.8





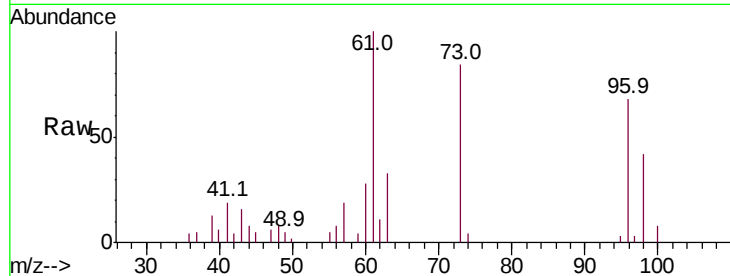
#17
trans-1,2-Dichloroethene
Concen: 2.540 ug/L
RT: 2.96 min Scan# 583
Delta R.T. 0.00 min
Lab File: VU033485.D
Acq: 30 Jul 2019 11:24

Instrument :
MSVOA_U
ClientSampled :
MDL04

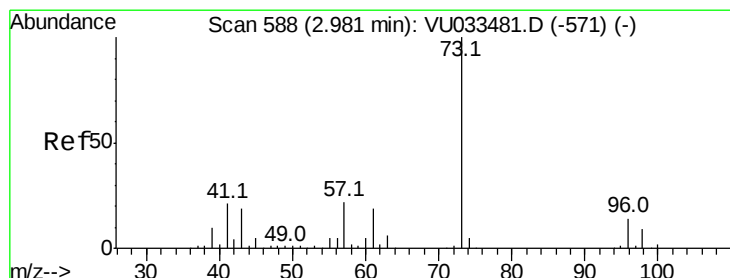
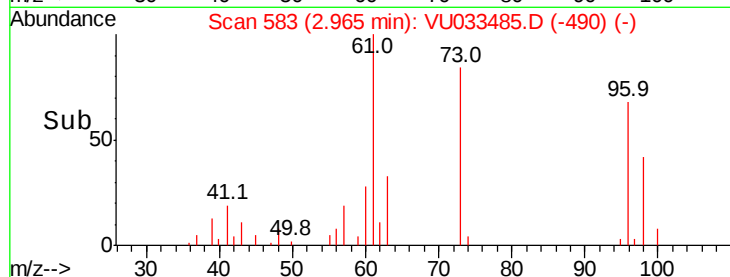
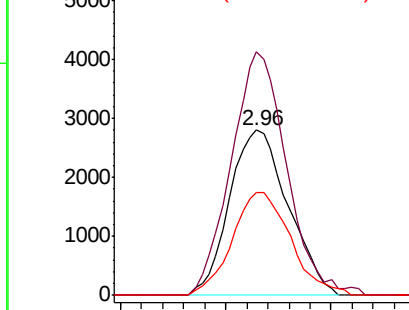
Tot Ion	Ratio	Lower	Upper
96	100		
61	147.5	100.3	186.3
98	62.4	45.1	83.9

Manual Integrations
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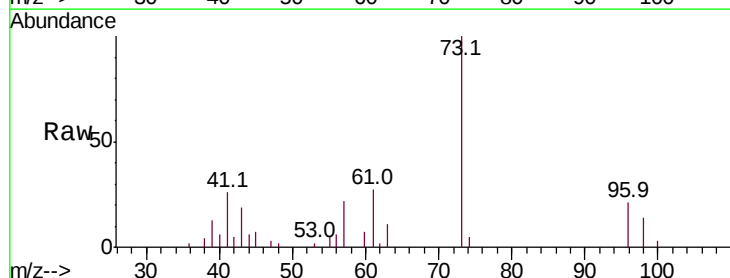


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

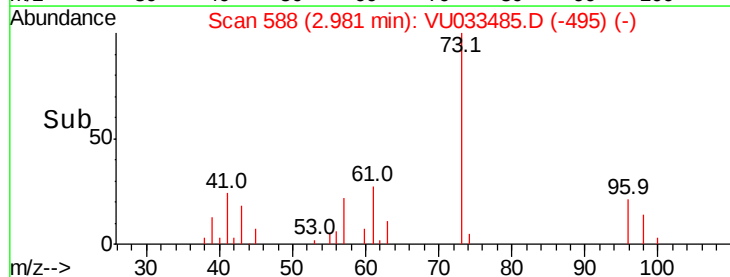
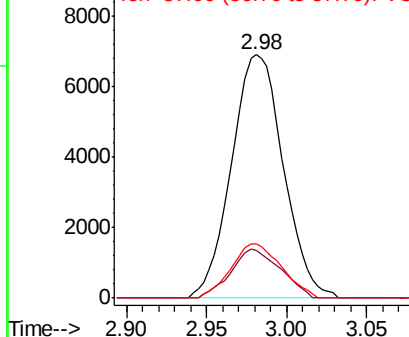


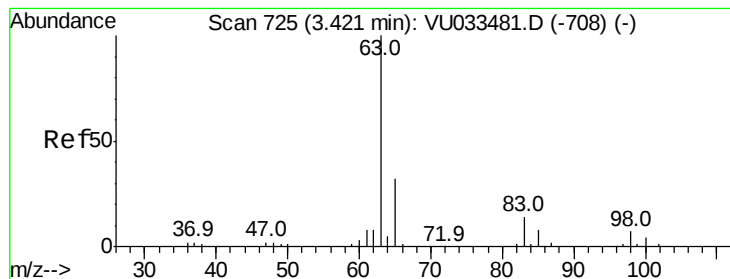
#18
Methyl tert-butyl Ether
Concen: 2.427 ug/L
RT: 2.98 min Scan# 588
Delta R.T. 0.00 min
Lab File: VU033485.D
Acq: 30 Jul 2019 11:24

Tgt Ion	Ratio	Lower	Upper
73	100		
43	19.2	15.3	22.9
57	21.8	17.7	26.5



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 2.480 ug/L

RT: 3.42 min Scan# 726

Delta R.T. 0.00 min

Lab File: VU033485.D

Acq: 30 Jul 2019 11:24

Instrument :

MSVOA_U

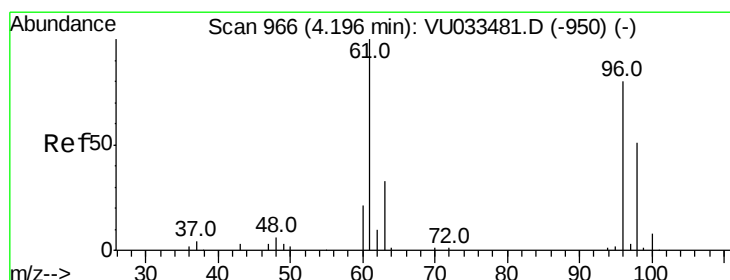
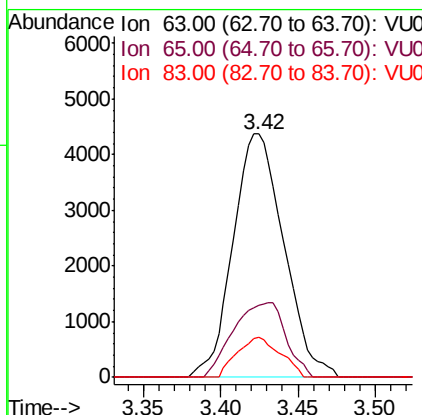
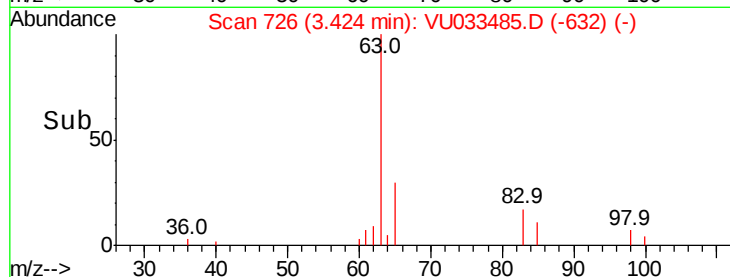
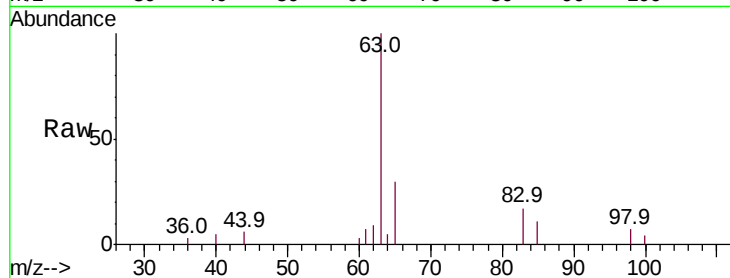
ClientSampled :

MDL04

Tot Ion:	63	Resp:	9981
Ion	Ratio	Lower	Upper
63	100		
65	29.8	22.7	42.1
83	16.5	9.4	17.6

Manual Integrations
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#20

cis-1,2-Dichloroethene

Concen: 2.657 ug/L

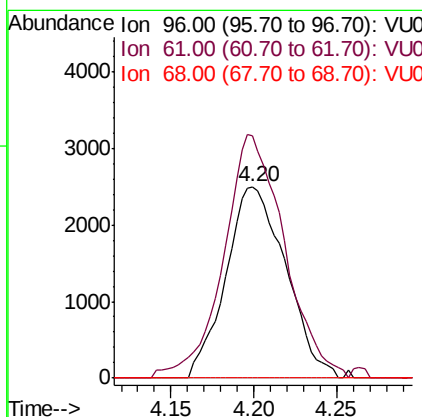
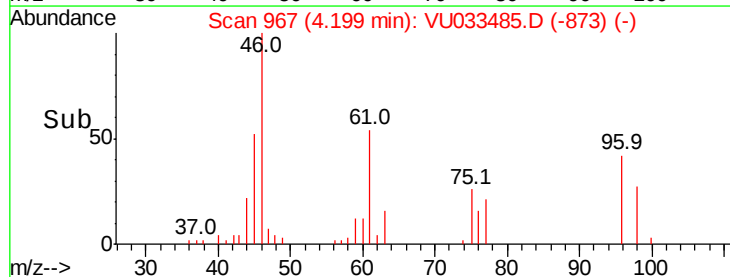
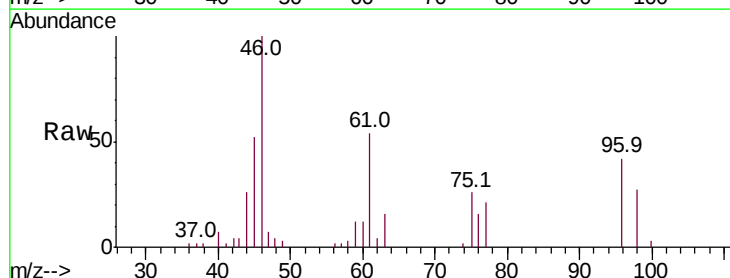
RT: 4.20 min Scan# 967

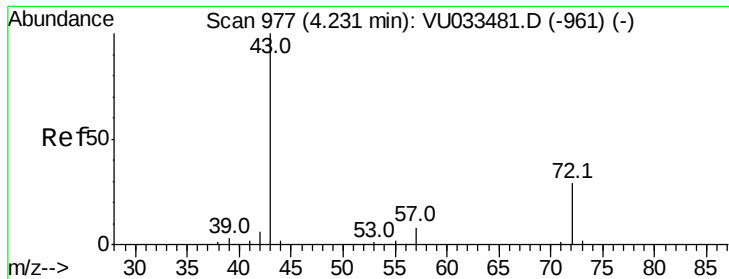
Delta R.T. 0.00 min

Lab File: VU033485.D

Acq: 30 Jul 2019 11:24

Tgt Ion:	96	Resp:	6269
Ion	Ratio	Lower	Upper
96	100		
61	126.4	88.9	165.1
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.831 ug/L

RT: 4.25 min Scan# 984

Delta R.T. 0.02 min

Lab File: VU033485.D

Acq: 30 Jul 2019 11:24

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 43 Resp: 8707

Ion Ratio Lower Upper

43 100

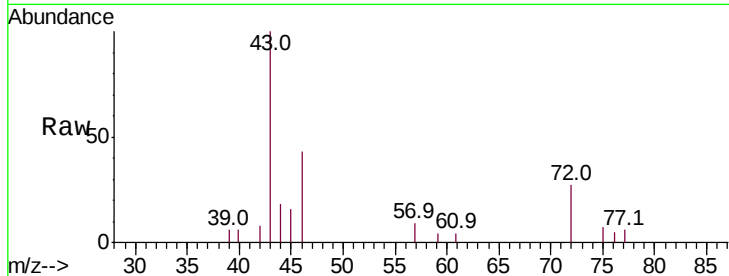
72 29.4 14.1 42.3

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Abundance Ion 43.00 (42.70 to 43.70): VU033485.D (-961) (-)

Ion 72.00 (71.70 to 72.70): VU033485.D (-961) (-)

4.25

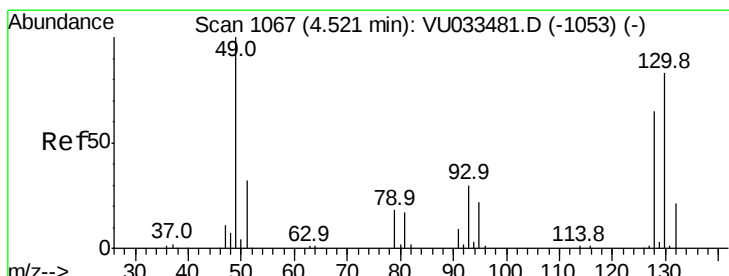
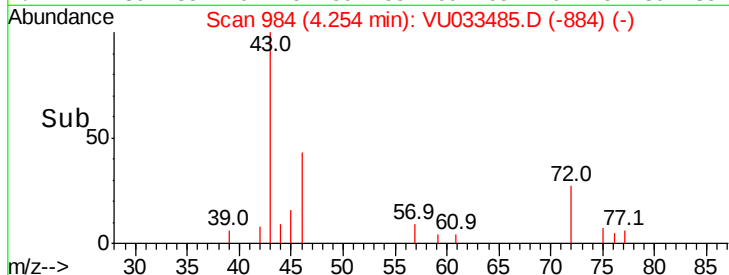
3000

2000

1000

0

Time-->



#23

Bromochloromethane

Concen: 2.494 ug/L m

RT: 4.53 min Scan# 1071

Delta R.T. 0.01 min

Lab File: VU033485.D

Acq: 30 Jul 2019 11:24

Tgt Ion:128 Resp: 3125

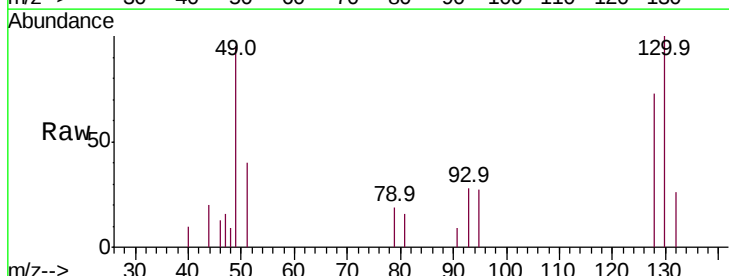
Ion Ratio Lower Upper

128 100

49 130.7 108.0 200.6

130 137.4 92.9 172.5

51 54.6 40.2 60.4



Abundance Ion 128.00 (127.70 to 128.70): VU033485.D (-1053) (-)

Ion 49.00 (48.70 to 49.70): VU033485.D (-1053) (-)

Ion 130.00 (129.70 to 130.70): VU033485.D (-1053) (-)

Ion 51.00 (50.70 to 51.70): VU033485.D (-1053) (-)

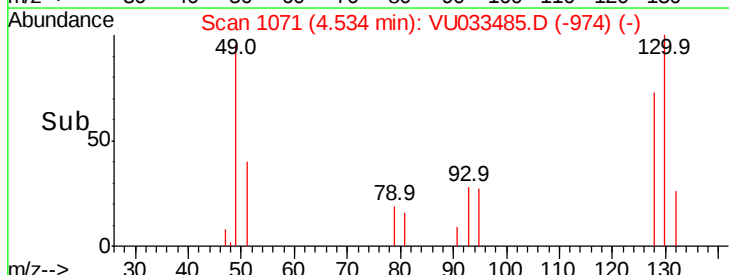
15000

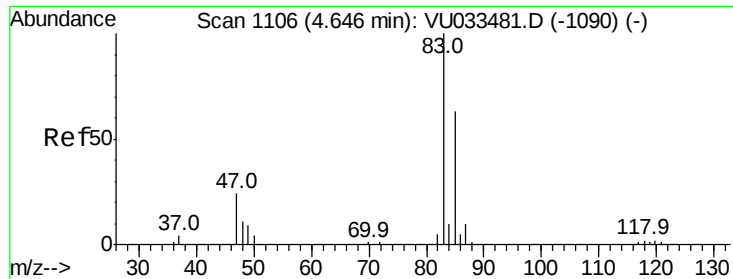
10000

5000

0

Time-->





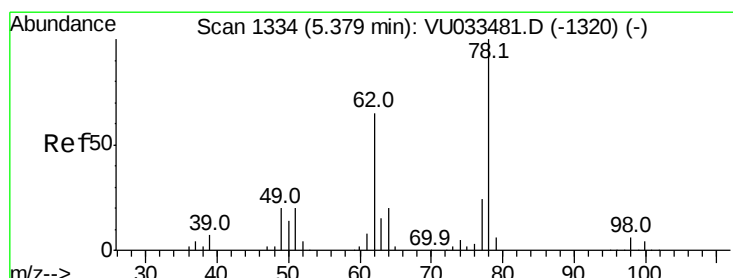
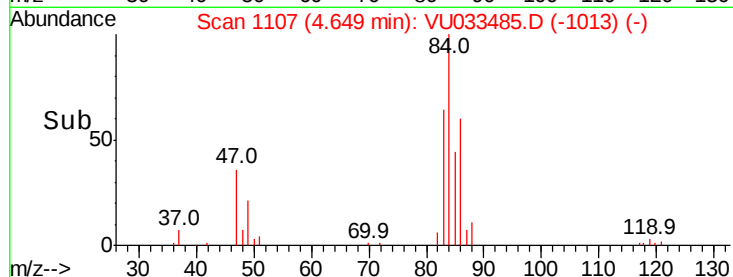
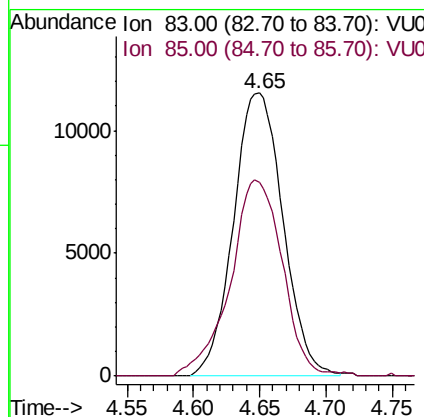
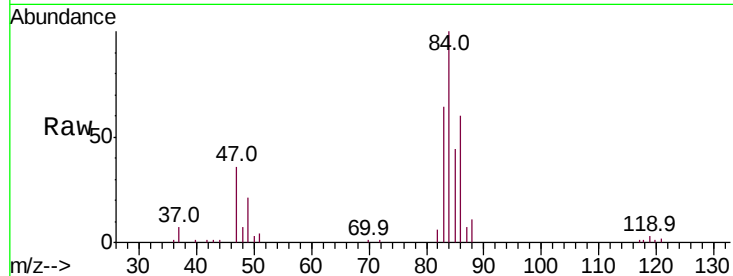
#25
Chloroform
Concen: 7.029 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU033485.D
Acq: 30 Jul 2019 11:24

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion	83	Resp	29992
Ion Ratio	100	Lower	Upper
85	68.5	45.6	84.8

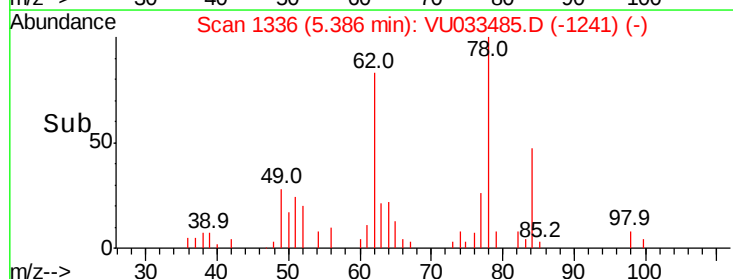
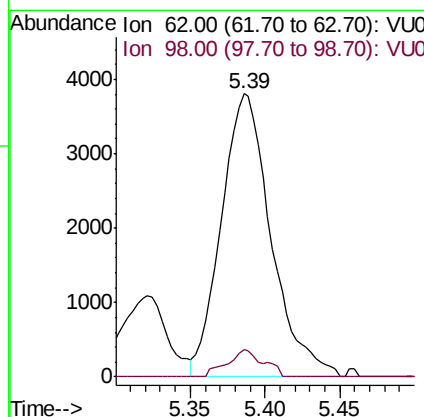
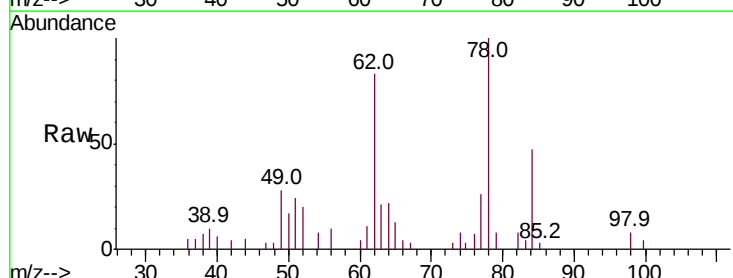
Manual Integrations
APPROVED

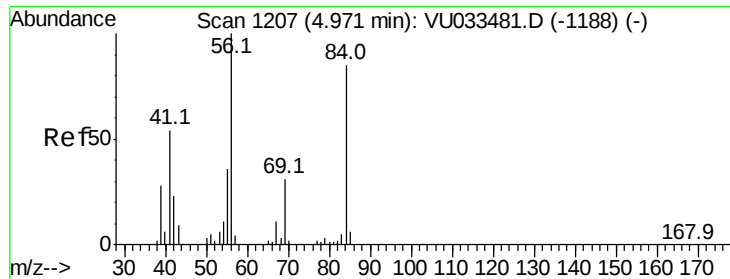
MMdadoda
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#27
1,2-Dichloroethane
Concen: 2.659 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.01 min
Lab File: VU033485.D
Acq: 30 Jul 2019 11:24

Tgt Ion	62	Resp	8810
Ion Ratio	100	Lower	Upper
98	9.6	6.7	10.1





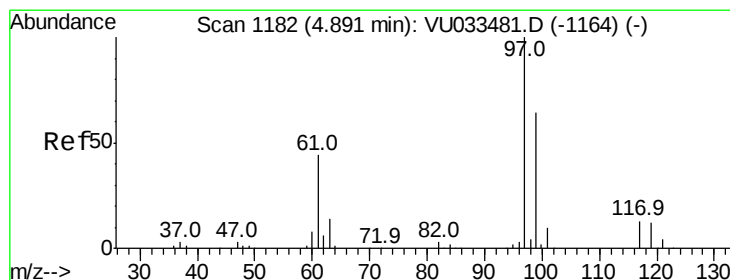
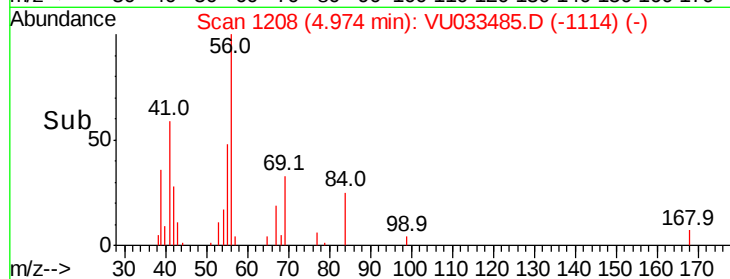
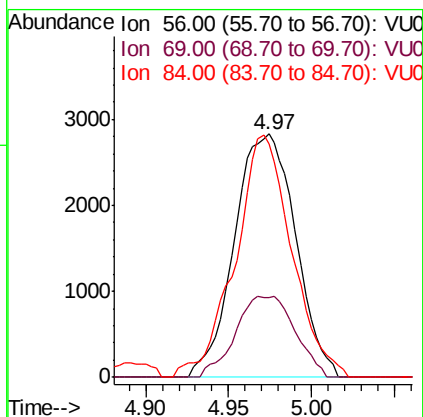
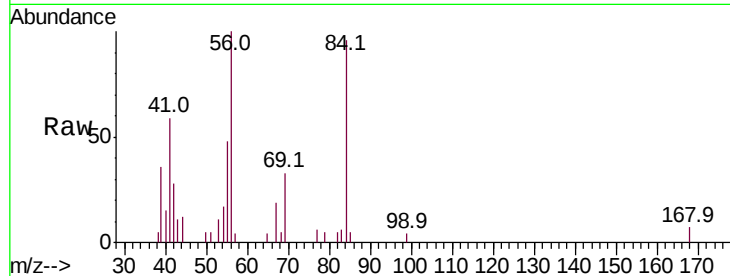
#29
Cyclohexane
Concen: 2.201 ug/L
RT: 4.97 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VU033485.D
Acq: 30 Jul 2019 11:24

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
56	100		
69	16.4	25.3	37.9#
84	92.4	69.6	104.4

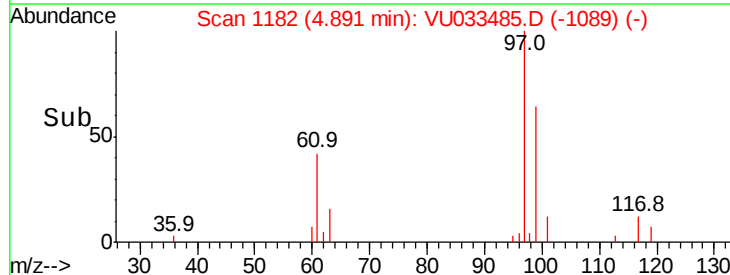
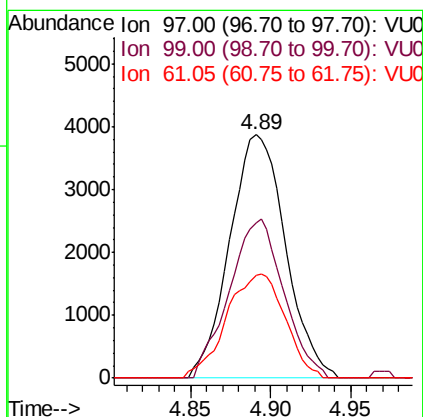
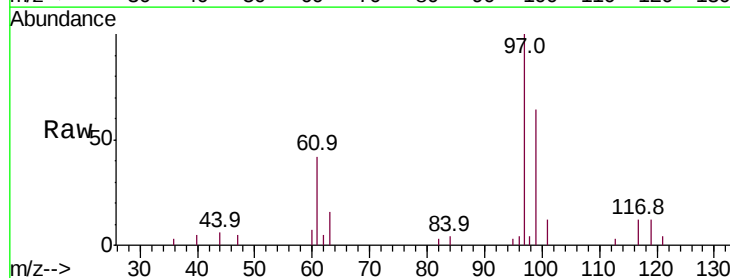
Manual Integrations
APPROVED

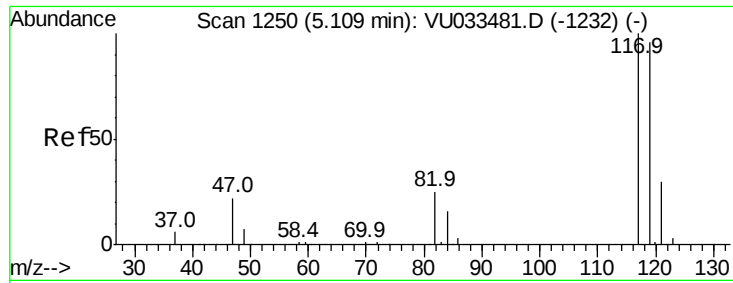
MMDadoda
8/1/2019 3:14:49 PM



#30
1,1,1-Trichloroethane
Concen: 2.594 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033485.D
Acq: 30 Jul 2019 11:24

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.8	77.6
61	44.7	36.2	54.2





#31

Carbon tetrachloride

Concen: 2.470 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU033485.D

Acq: 30 Jul 2019 11:24

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion:117 Resp: 7851

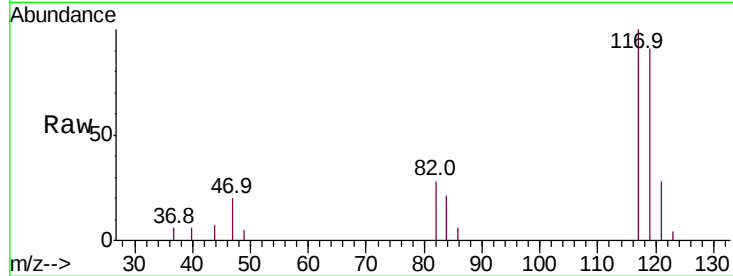
Ion Ratio Lower Upper

117 100

119 94.2 76.8 115.2

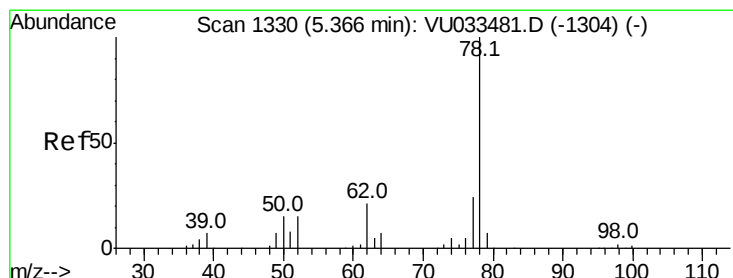
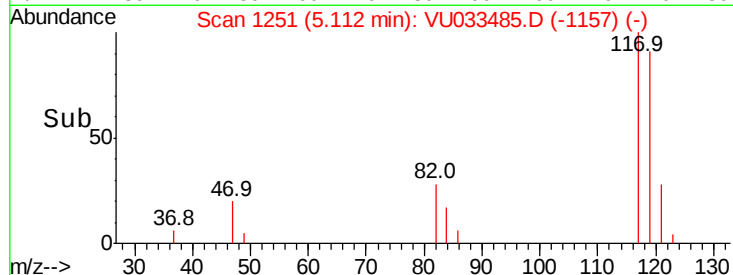
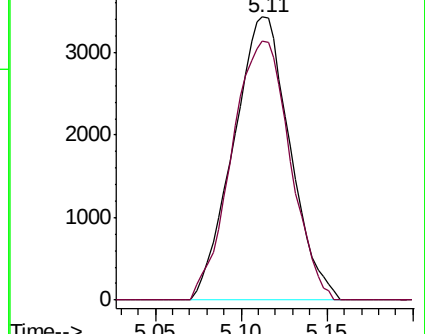
Manual Integrations
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.598 ug/L

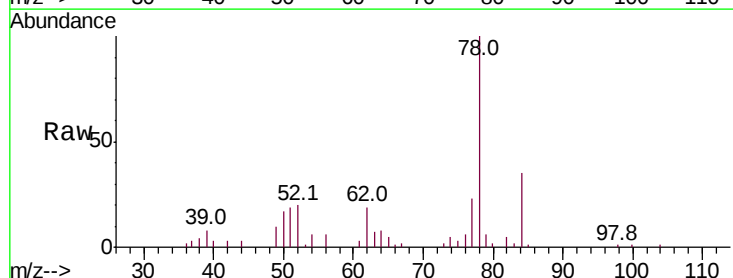
RT: 5.37 min Scan# 1331

Delta R.T. 0.00 min

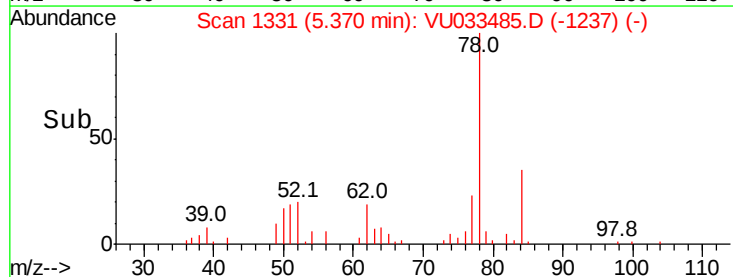
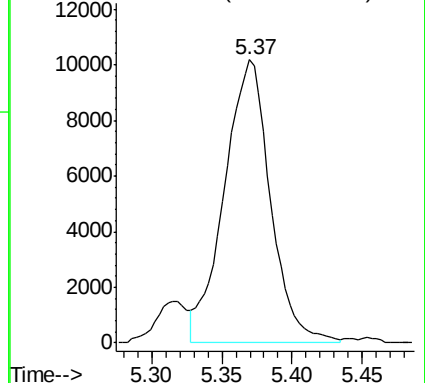
Lab File: VU033485.D

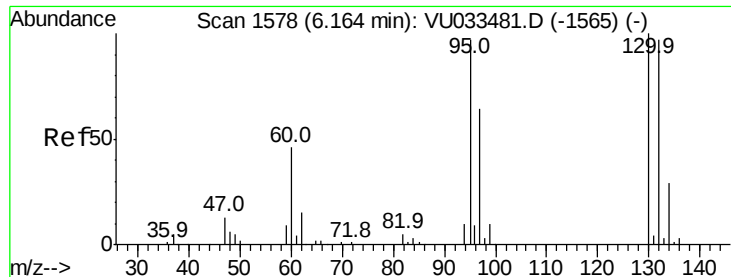
Acq: 30 Jul 2019 11:24

Tgt Ion: 78 Resp: 23292



Abundance Ion 78.00 (77.70 to 78.70): VU0





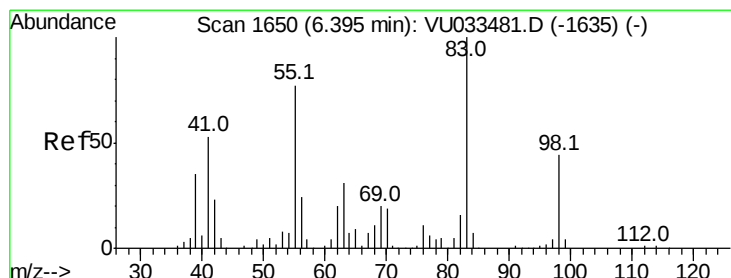
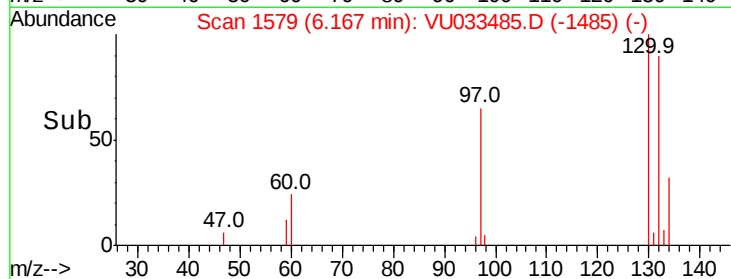
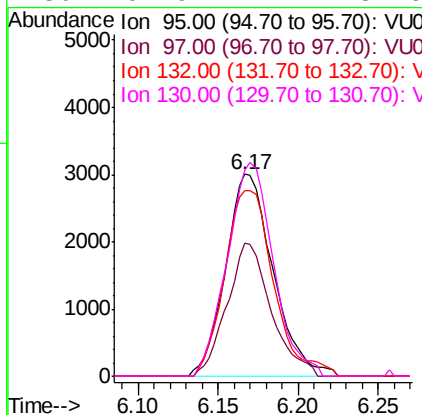
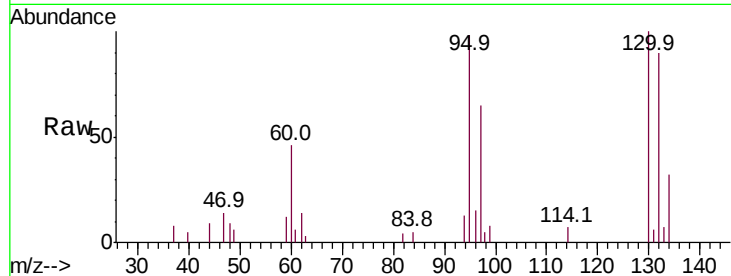
#34
 Trichloroethene
 Concen: 2.616 ug/L
 RT: 6.17 min Scan# 1579
 Delta R.T. 0.00 min
 Lab File: VU033485.D
 Acq: 30 Jul 2019 11:24

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tot Ion:	95	Resp:	6110
Ion	Ratio	Lower	Upper
95	100		
97	66.1	45.4	84.2
132	92.0	67.1	124.5
130	101.9	71.4	132.6

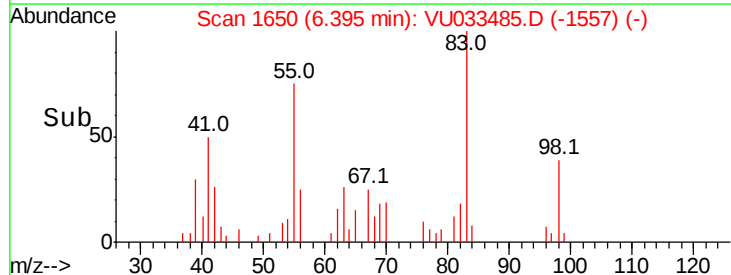
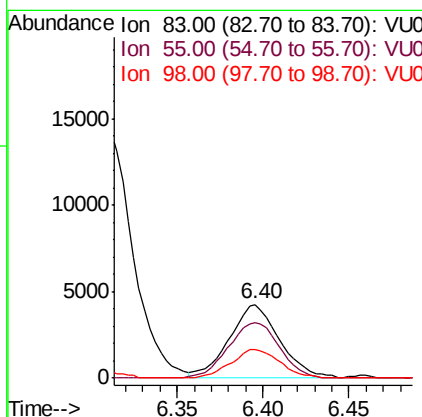
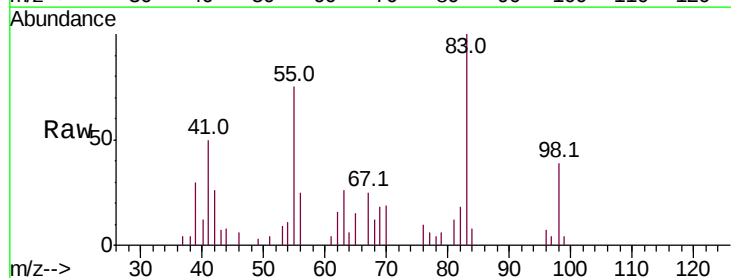
Manual Integrations
 APPROVED

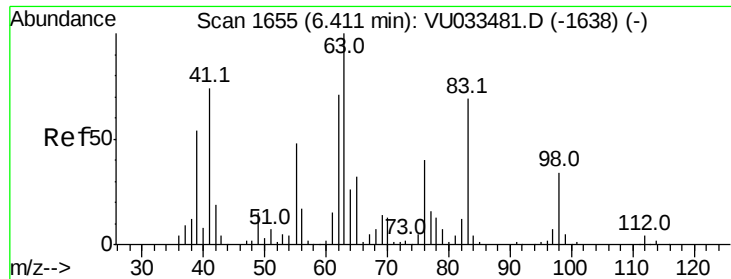
MMdadoda
 8/1/2019 3:14:49 PM



#35
 Methylcyclohexane
 Concen: 2.441 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. 0.00 min
 Lab File: VU033485.D
 Acq: 30 Jul 2019 11:24

Tgt Ion:	83	Resp:	8668
Ion	Ratio	Lower	Upper
83	100		
55	76.4	62.4	93.6
98	37.9	37.3	55.9





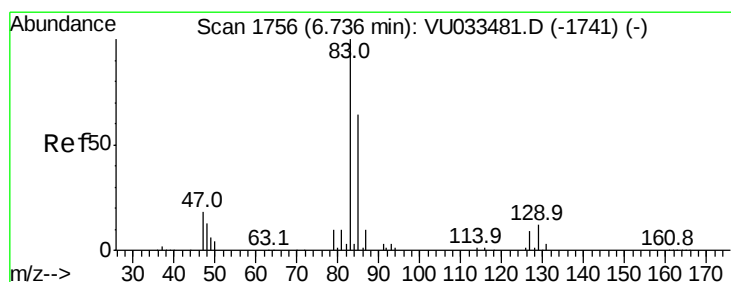
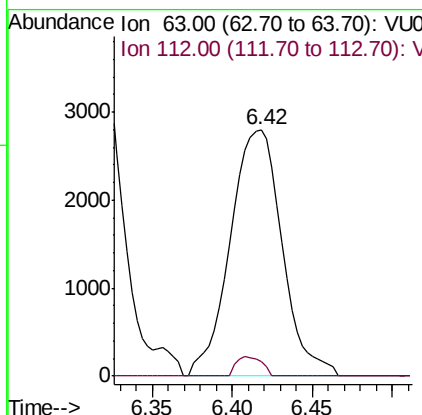
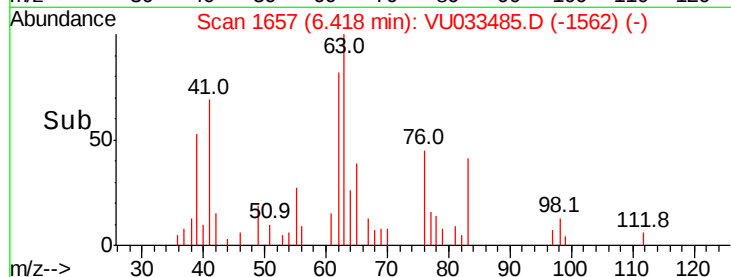
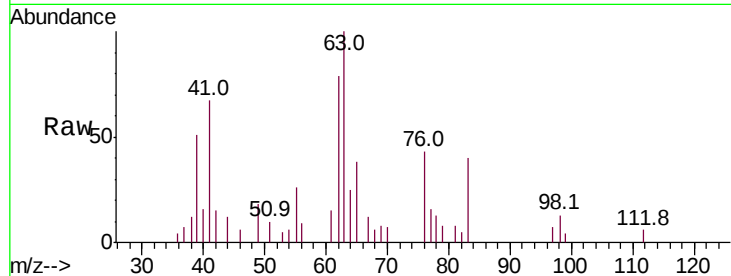
#37
 1,2-Dichloropropane
 Concen: 2.581 ug/L
 RT: 6.42 min Scan# 1657
 Delta R.T. 0.01 min
 Lab File: VU033485.D
 Acq: 30 Jul 2019 11:24

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tot Ion: 63 Resp: 6223
 Ion Ratio Lower Upper
 63 100
 112 3.7 3.1 4.7

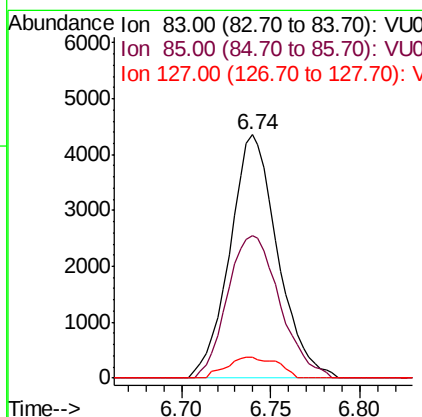
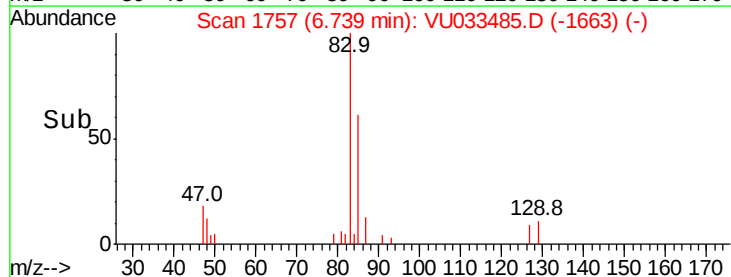
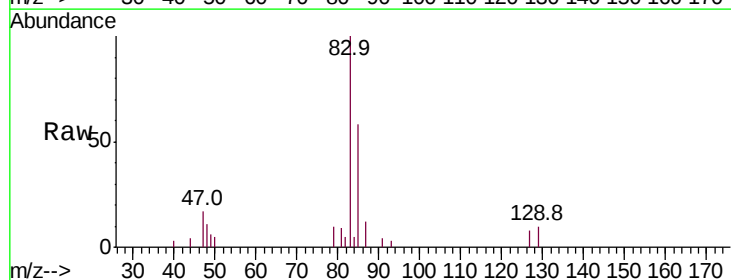
Manual Integrations
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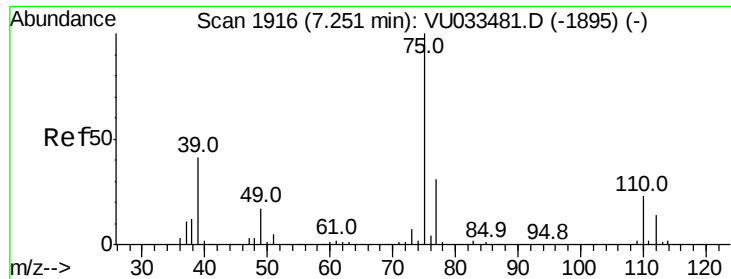
MMdadoda
 8/1/2019 3:14:49 PM



#38
 Bromodichloromethane
 Concen: 2.559 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033485.D
 Acq: 30 Jul 2019 11:24

Tgt Ion: 83 Resp: 8120
 Ion Ratio Lower Upper
 83 100
 85 58.4 45.4 84.4
 127 8.4 7.3 10.9





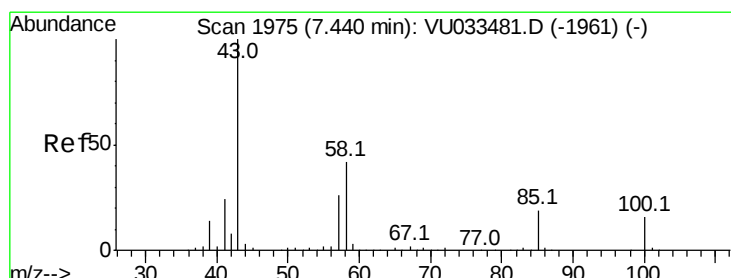
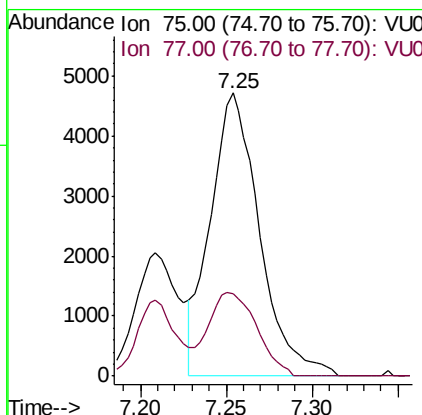
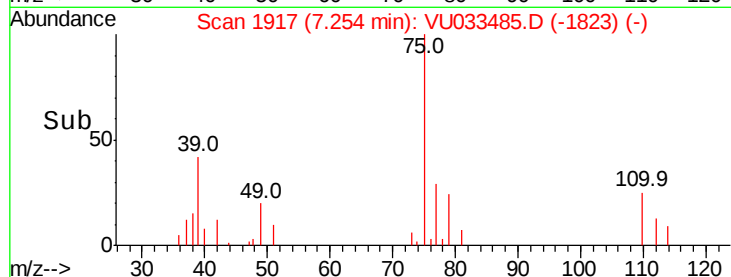
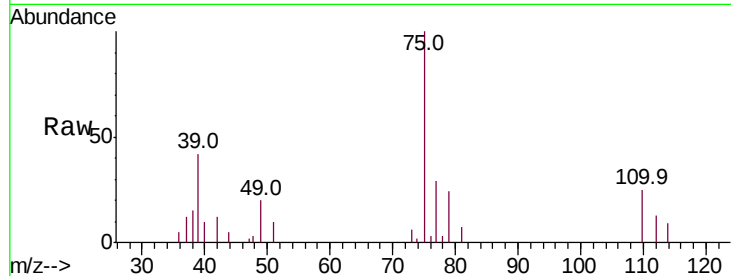
#39
 cis-1,3-Dichloropropene
 Concen: 2.610 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033485.D
 Acq: 30 Jul 2019 11:24

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion: 75 Resp: 9383
 Ion Ratio Lower Upper
 75 100
 77 28.9 21.6 40.2

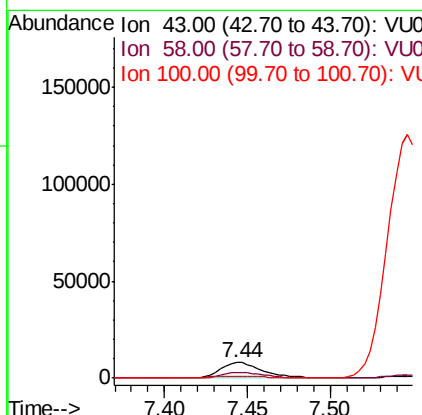
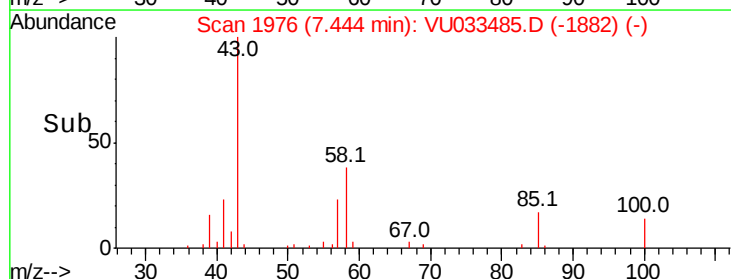
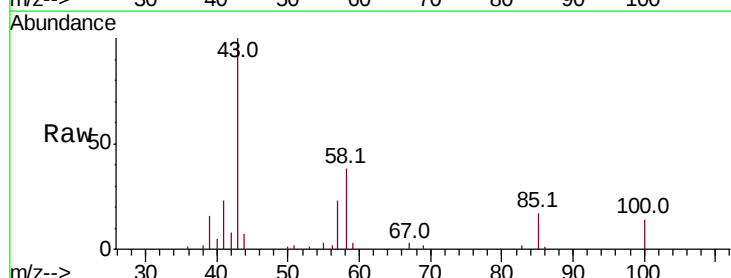
Manual Integrations
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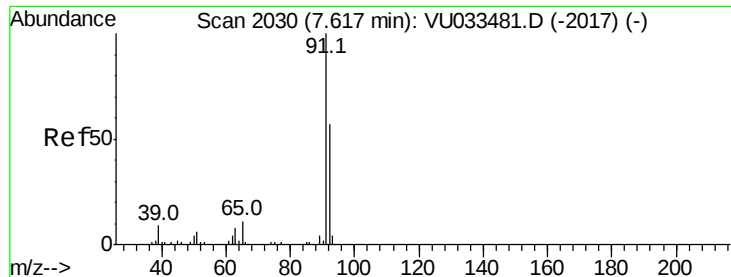
MMdadoda
 8/1/2019 3:14:49 PM



#40
 4-Methyl-2-pentanone
 Concen: 4.513 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU033485.D
 Acq: 30 Jul 2019 11:24

Tgt Ion: 43 Resp: 14338
 Ion Ratio Lower Upper
 43 100
 58 39.5 33.4 50.2
 100 14.8 12.3 18.5





#42

Toluene

Concen: 2.554 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033485.D

Acq: 30 Jul 2019 11:24

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 91 Resp: 24635

Ion Ratio Lower Upper

91 100

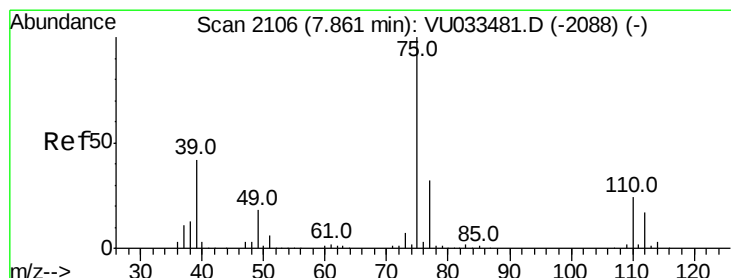
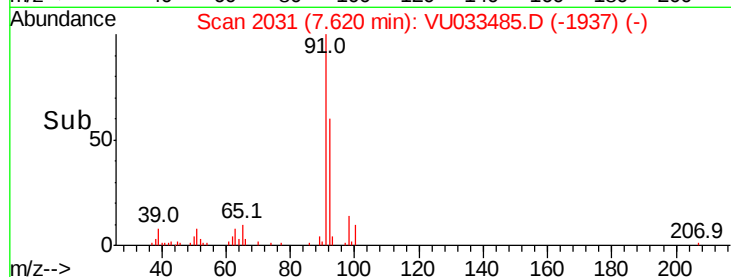
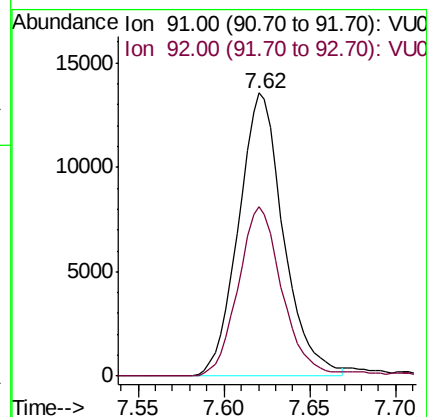
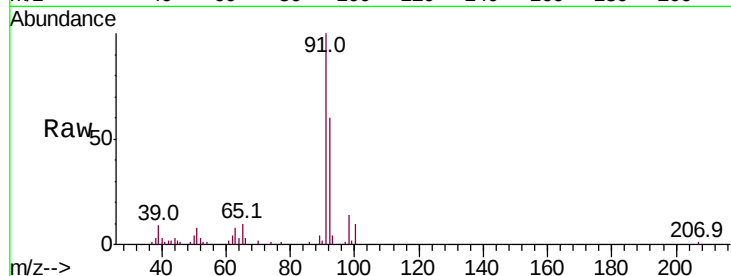
92 59.7 40.1 74.5

Manual Integrations

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MMdadoda

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#44

trans-1,3-Dichloropropene

Concen: 2.665 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033485.D

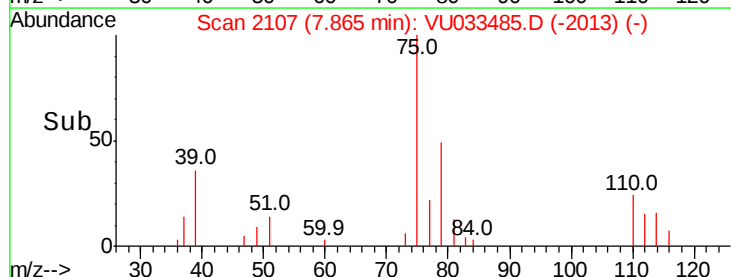
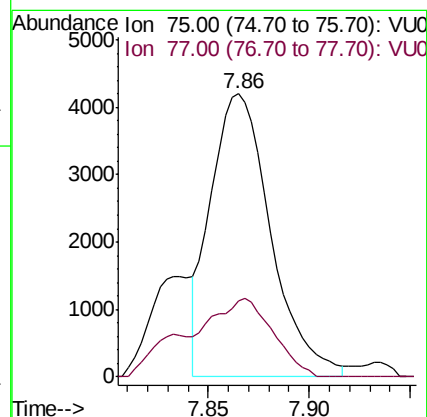
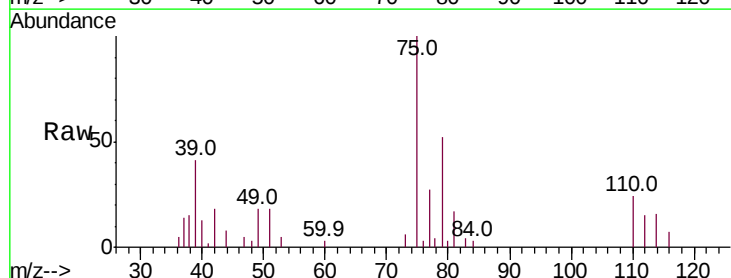
Acq: 30 Jul 2019 11:24

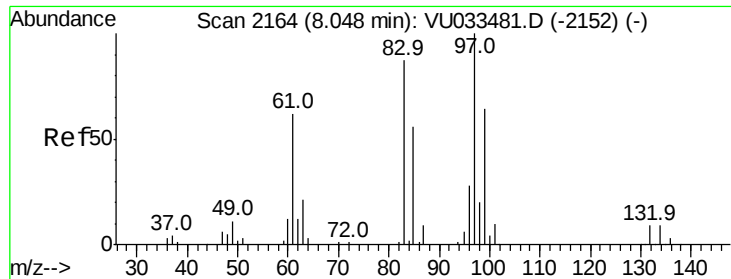
Tgt Ion: 75 Resp: 8697

Ion Ratio Lower Upper

75 100

77 26.6 22.3 41.5





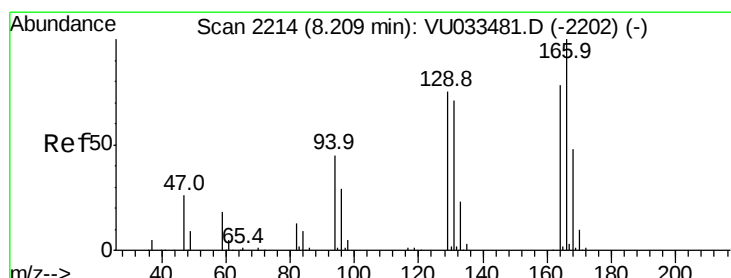
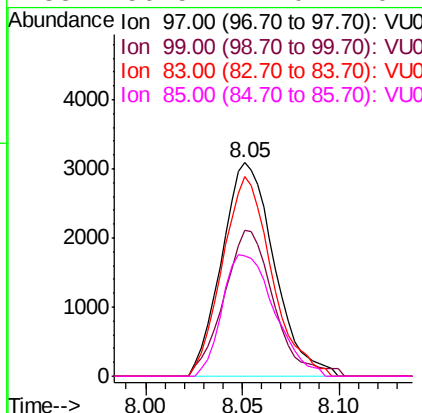
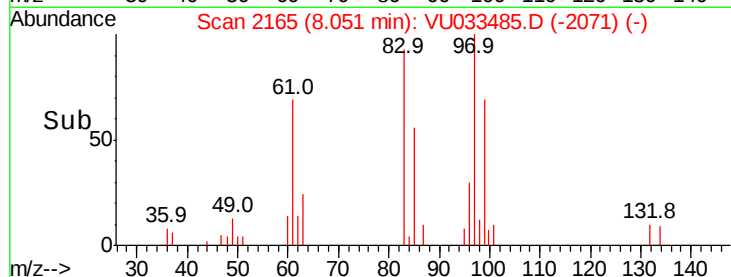
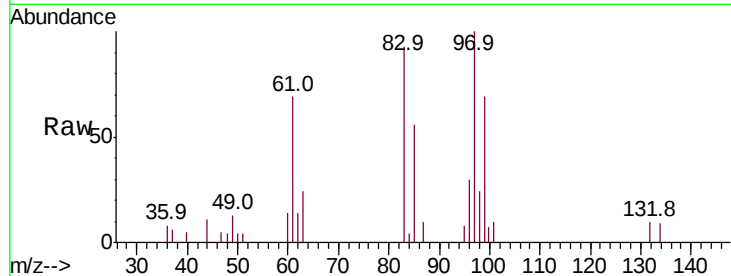
#45
 1,1,2-Trichloroethane
 Concen: 2.529 ug/L
 RT: 8.05 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VU033485.D
 Acq: 30 Jul 2019 11:24

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion:	97	Resp:	5816
Ion	Ratio	Lower	Upper
97	100		
99	68.6	43.3	80.5
83	93.4	61.3	113.9
85	56.5	41.0	76.2

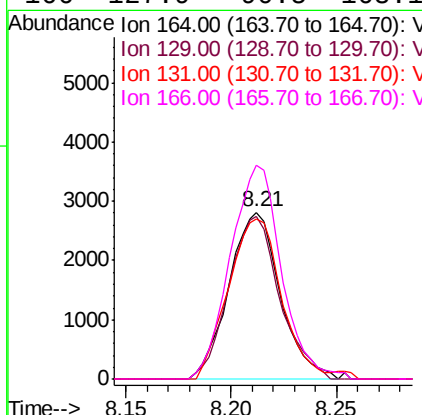
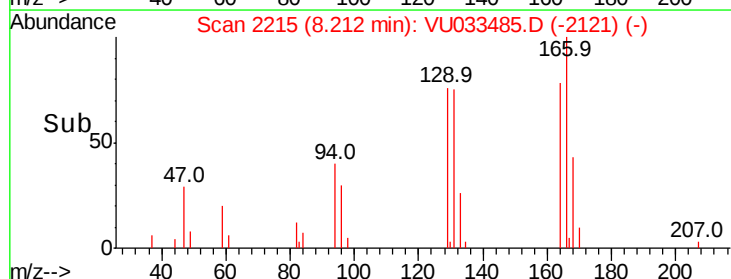
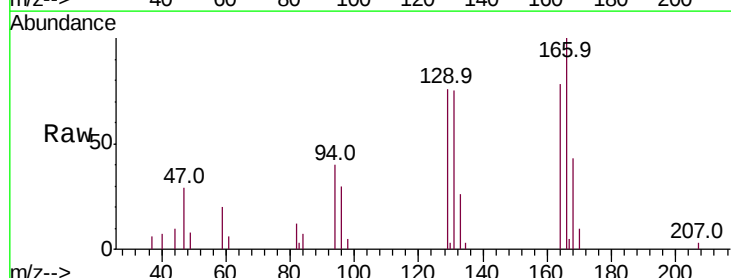
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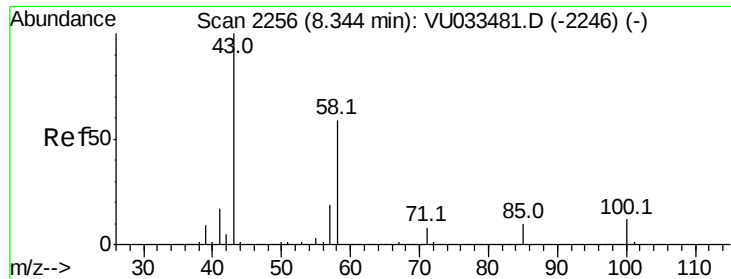
MMdadoda
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#46
 Tetrachloroethene
 Concen: 2.506 ug/L
 RT: 8.21 min Scan# 2215
 Delta R.T. 0.00 min
 Lab File: VU033485.D
 Acq: 30 Jul 2019 11:24

Tgt Ion:	164	Resp:	4762
Ion	Ratio	Lower	Upper
164	100		
129	97.4	66.6	123.8
131	95.7	63.9	118.7
166	127.9	90.5	168.1





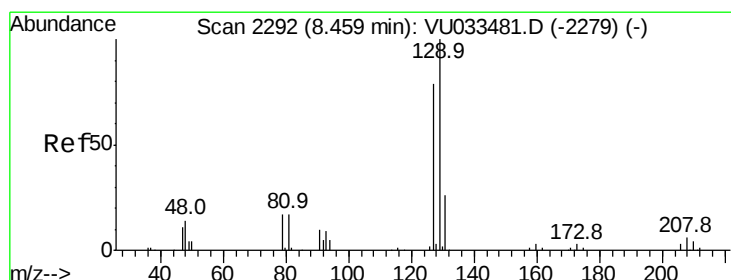
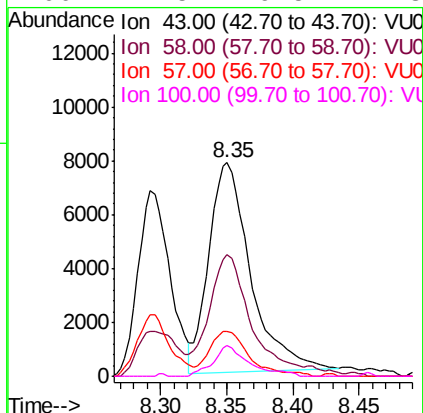
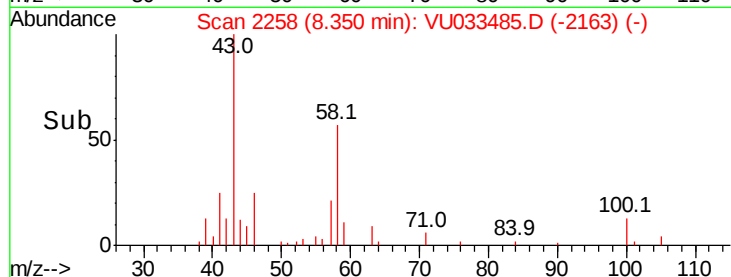
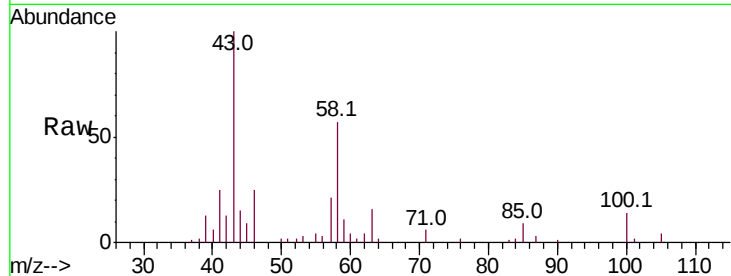
#48
2-Hexanone
Concen: 6.582 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033485.D
Acq: 30 Jul 2019 11:24

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	51.0	46.6	69.8	
57	17.3	16.0	24.0	
100	12.5	9.5	14.3	

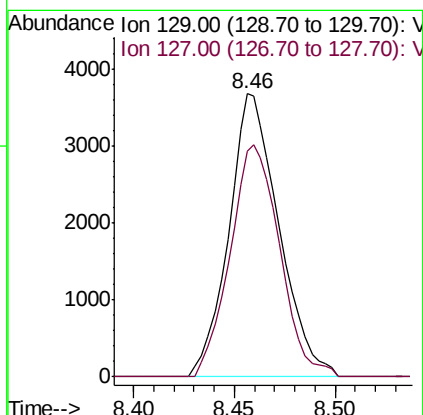
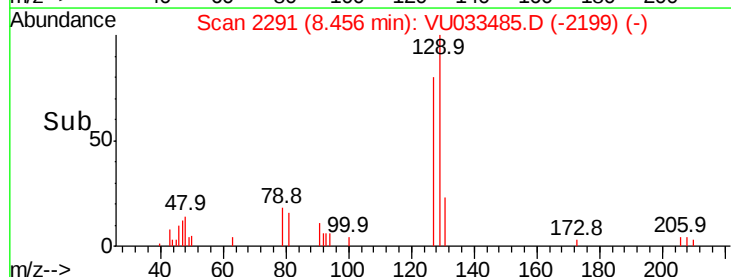
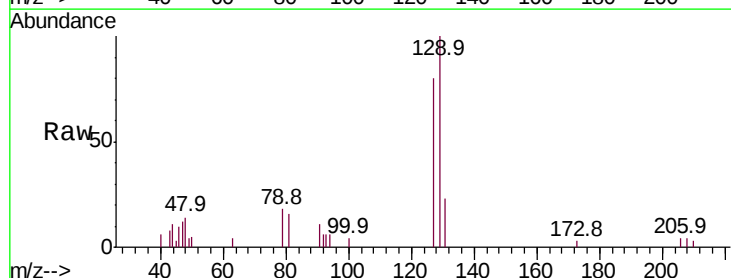
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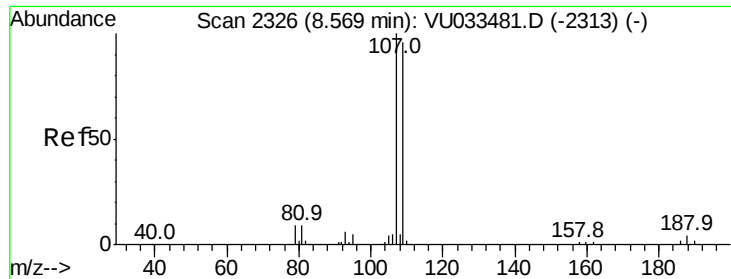
MMdadoda
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#49
Dibromochloromethane
Concen: 2.479 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU033485.D
Acq: 30 Jul 2019 11:24

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	79.6	54.5	101.1	





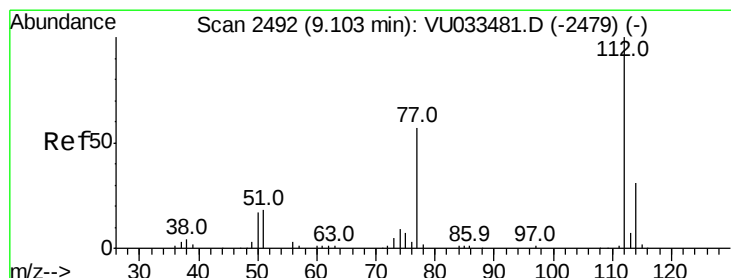
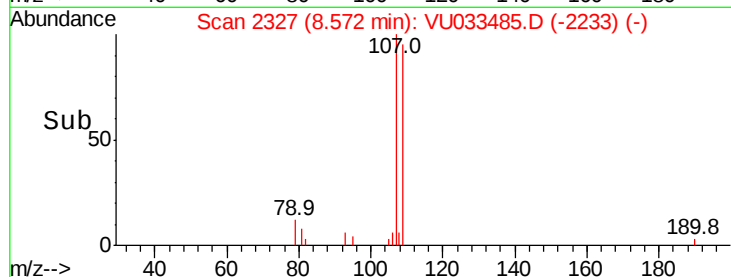
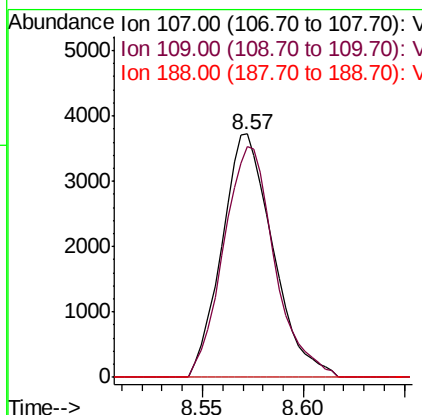
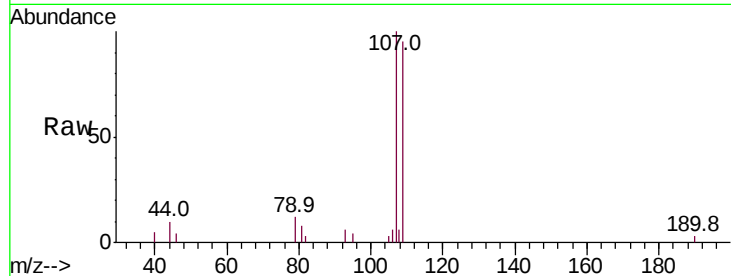
#50
 1,2-Dibromoethane
 Concen: 2.638 ug/L
 RT: 8.57 min Scan# 2327
 Delta R.T. 0.00 min
 Lab File: VU033485.D
 Acq: 30 Jul 2019 11:24

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.9	64.7	120.1
188	0.0	2.8	4.2#

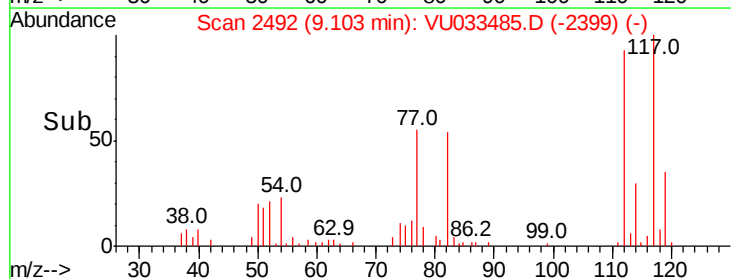
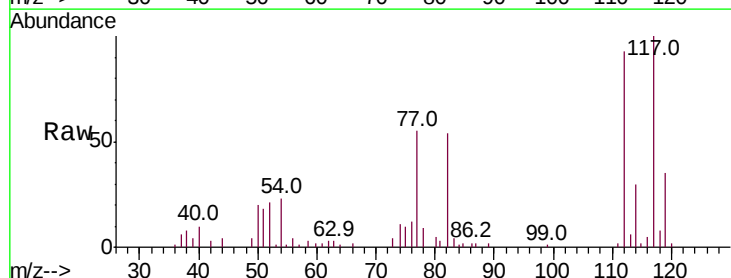
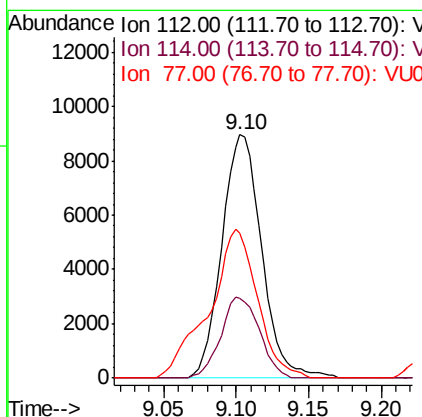
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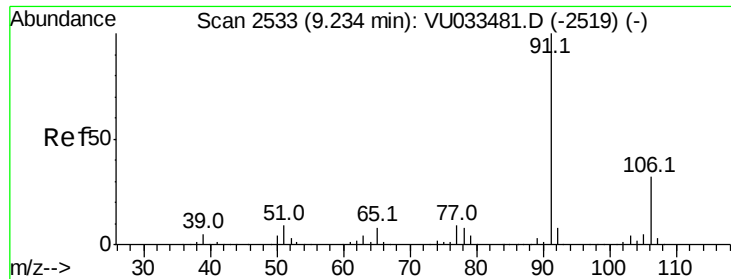
MMdadoda
 8/1/2019 3:14:49 PM



#51
 Chlorobenzene
 Concen: 2.660 ug/L
 RT: 9.10 min Scan# 2492
 Delta R.T. 0.00 min
 Lab File: VU033485.D
 Acq: 30 Jul 2019 11:24

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.7	21.9	40.7
77	59.6	46.1	69.1





#52

Ethylbenzene

Concen: 2.375 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033485.D

Acq: 30 Jul 2019 11:24

Tot Ion: 91 Resp: 24835

Ion Ratio Lower Upper

91 100

106 32.4 21.6 40.2

Instrument :

MSVOA_U

ClientSampled :

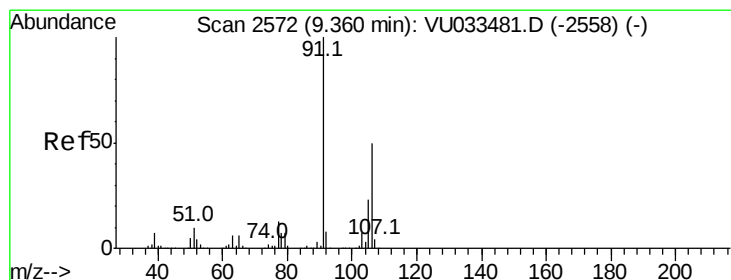
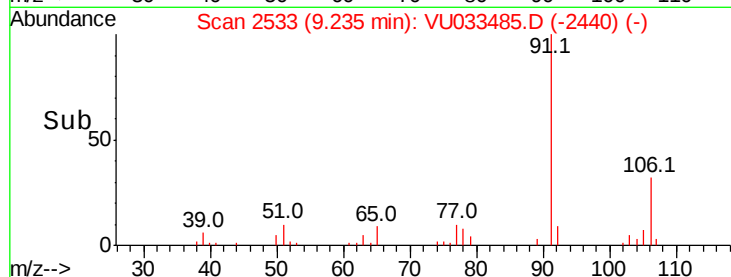
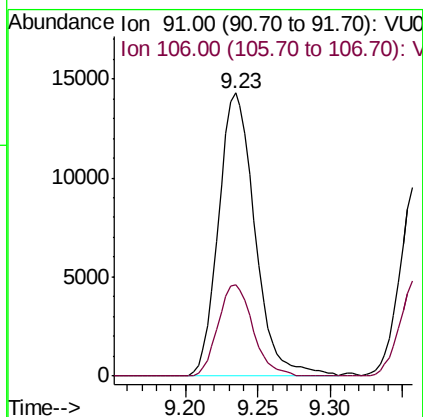
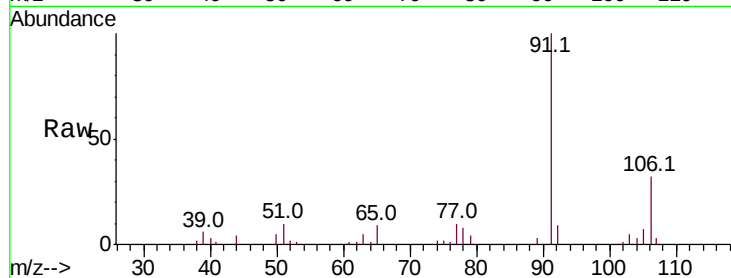
MDL04

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MMdadoda

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#53

m,p-Xylene

Concen: 2.253 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033485.D

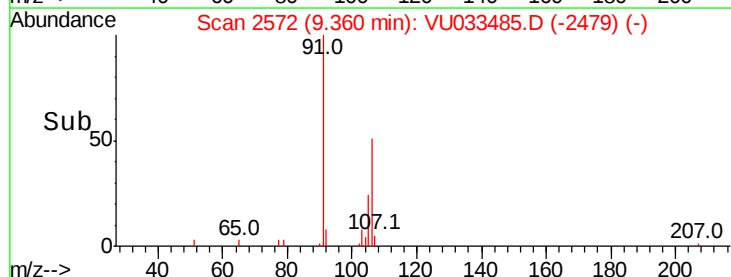
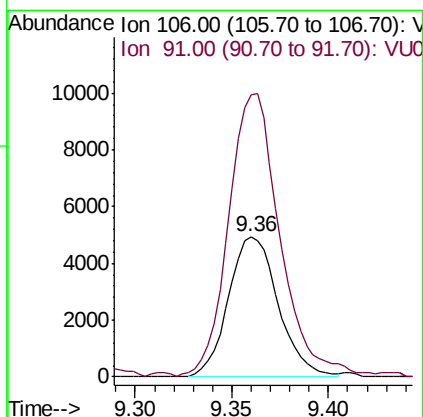
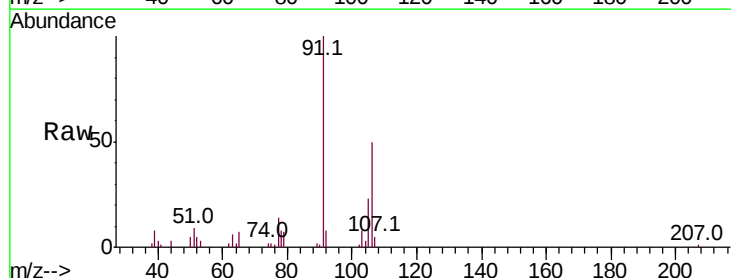
Acq: 30 Jul 2019 11:24

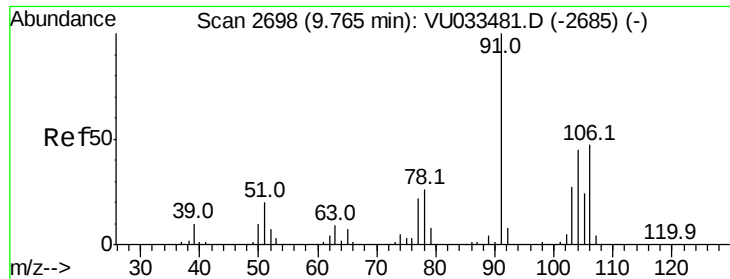
Tgt Ion: 106 Resp: 8859

Ion Ratio Lower Upper

106 100

91 200.8 140.7 261.3





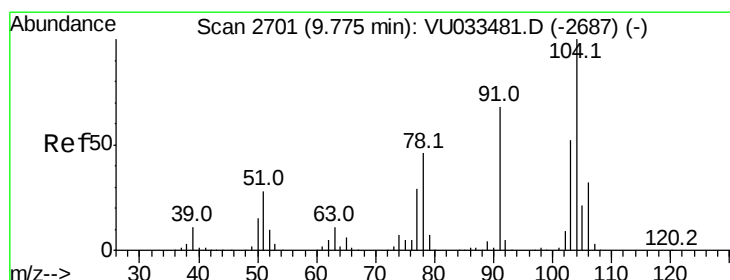
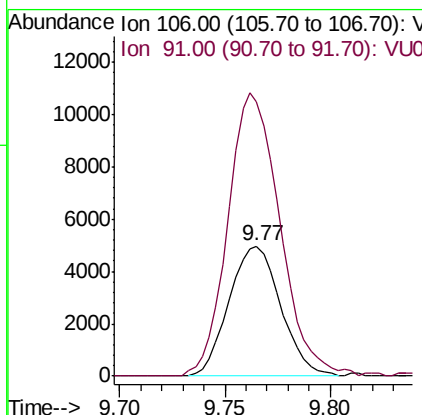
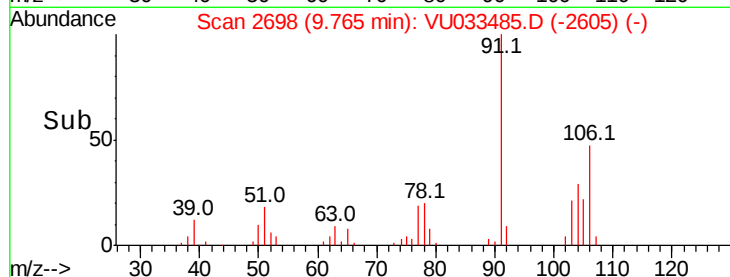
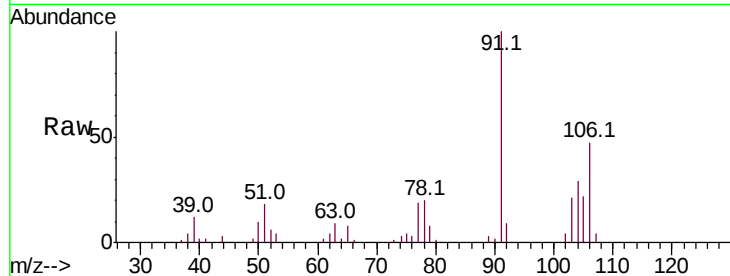
#54
o-xylene
Concen: 2.199 ug/L
RT: 9.77 min Scan# 2698
Delta R.T. 0.00 min
Lab File: VU033485.D
Acq: 30 Jul 2019 11:24

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion:106 Resp: 8480
Ion Ratio Lower Upper
106 100
91 211.6 151.1 280.7

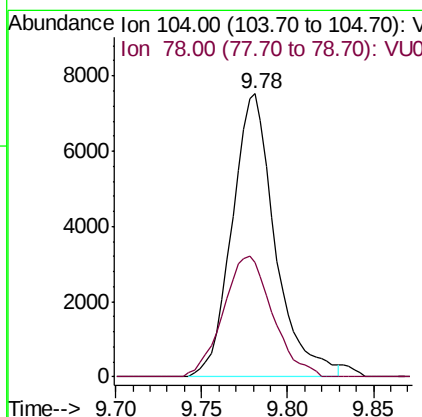
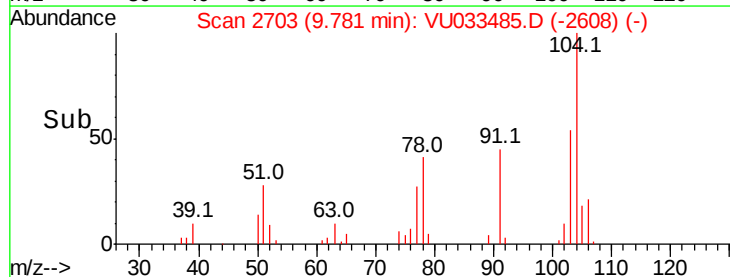
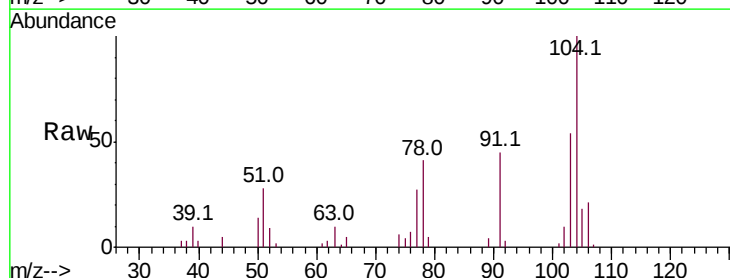
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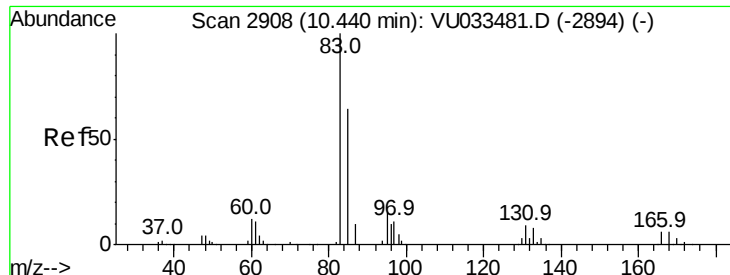
MMdadoda
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#55
Styrene
Concen: 2.003 ug/L
RT: 9.78 min Scan# 2703
Delta R.T. 0.01 min
Lab File: VU033485.D
Acq: 30 Jul 2019 11:24

Tgt Ion:104 Resp: 13105
Ion Ratio Lower Upper
104 100
78 40.6 32.6 60.5





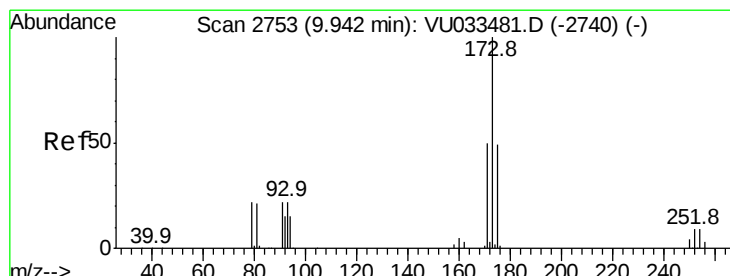
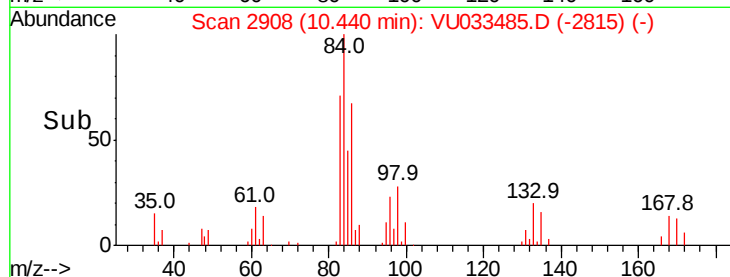
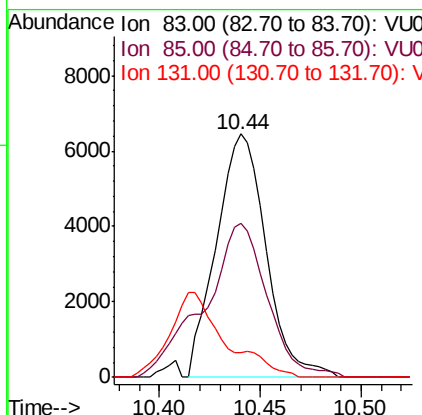
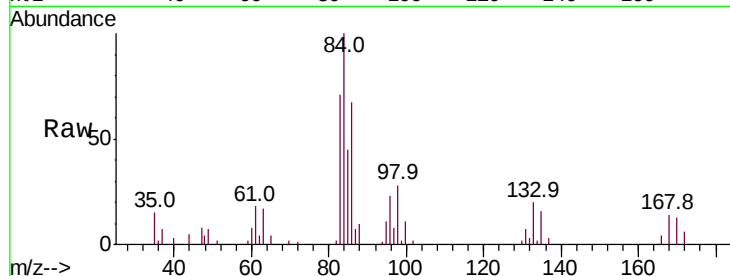
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.708 ug/L
 RT: 10.44 min Scan# 2908
 Delta R.T. 0.00 min
 Lab File: VU033485.D
 Acq: 30 Jul 2019 11:24

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	83	Resp	11069
Ion	Ratio	Lower	Upper
83	100		
85	63.5	45.9	85.3
131	10.2	7.8	11.8

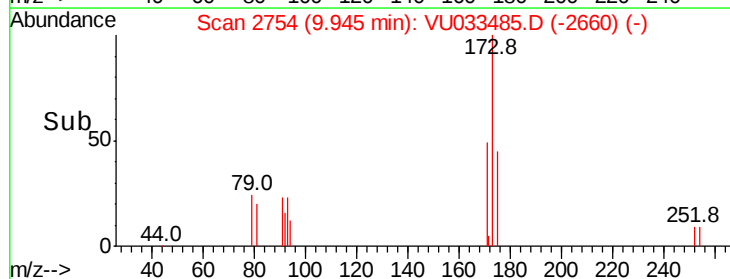
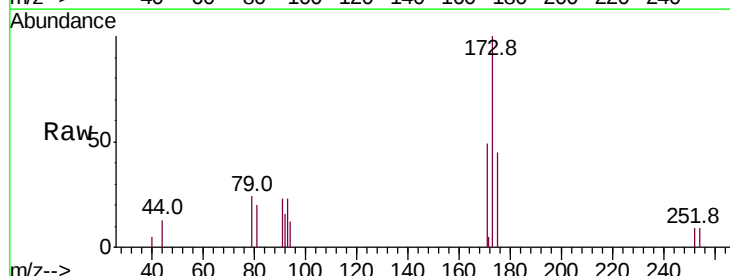
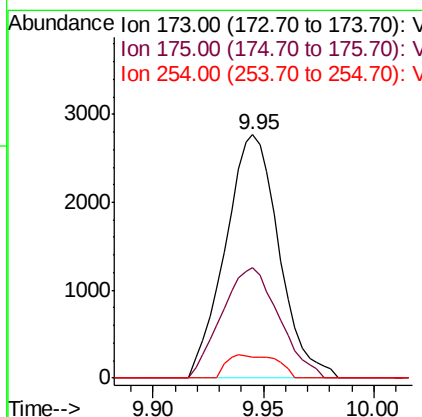
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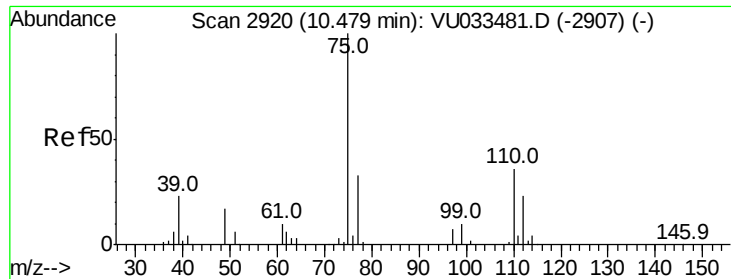
MMdadoda
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#59
 Bromoform
 Concen: 2.604 ug/L
 RT: 9.95 min Scan# 2754
 Delta R.T. 0.00 min
 Lab File: VU033485.D
 Acq: 30 Jul 2019 11:24

Tgt Ion	173	Resp	4675
Ion	Ratio	Lower	Upper
173	100		
175	48.4	38.1	57.1
254	8.9	7.3	10.9





#60

1,2,3-Trichloropropane

Concen: 2.984 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU033485.D

Acq: 30 Jul 2019 11:24

Instrument :

MSVOA_U

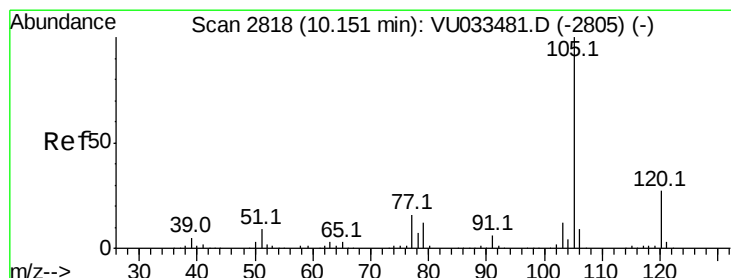
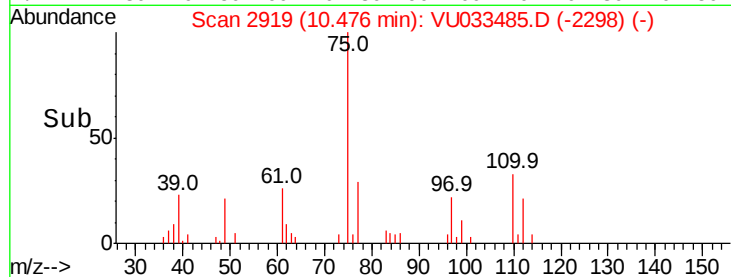
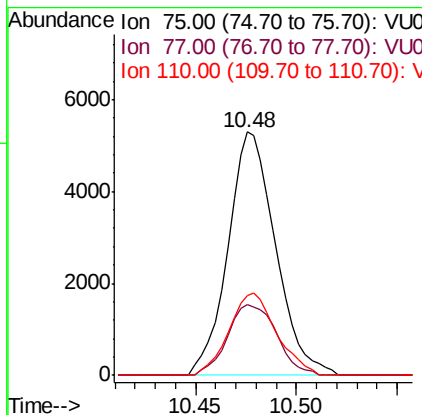
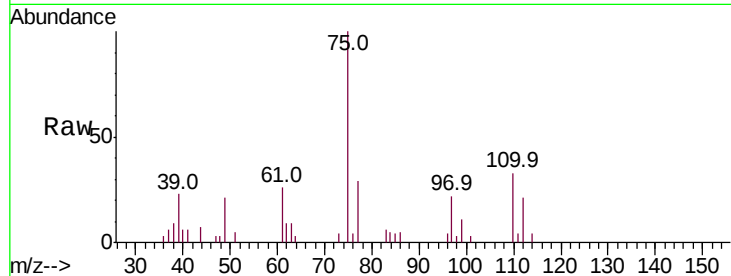
ClientSampled :

MDL04

Tot Ion:	75	Resp:	8724
Ion	Ratio	Lower	Upper
75	100		
77	30.0	25.9	38.9
110	33.9	30.2	45.4

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#61

Isopropylbenzene

Concen: 2.408 ug/L

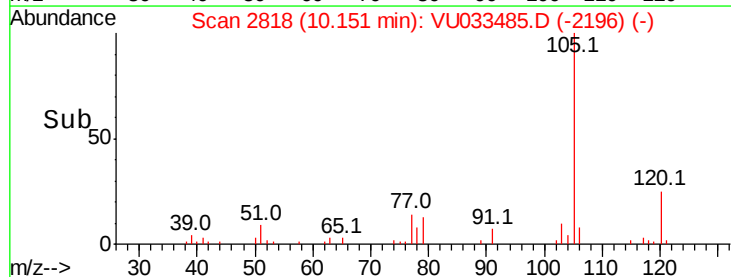
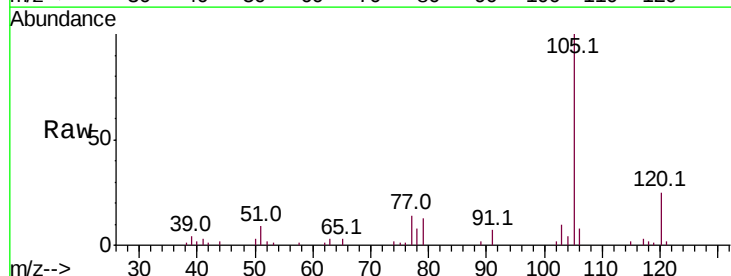
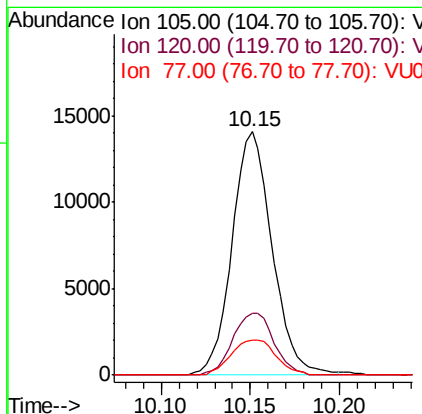
RT: 10.15 min Scan# 2818

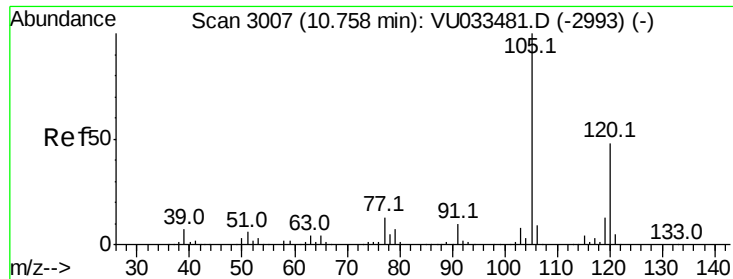
Delta R.T. 0.00 min

Lab File: VU033485.D

Acq: 30 Jul 2019 11:24

Tgt Ion:	105	Resp:	22137
Ion	Ratio	Lower	Upper
105	100		
120	26.1	21.7	32.5
77	16.1	12.6	19.0





#62

1,3,5-Trimethylbenzene

Concen: 2.219 ug/L

RT: 10.76 min Scan# 3007

Delta R.T. 0.00 min

Lab File: VU033485.D

Acq: 30 Jul 2019 11:24

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion:105 Resp: 16531

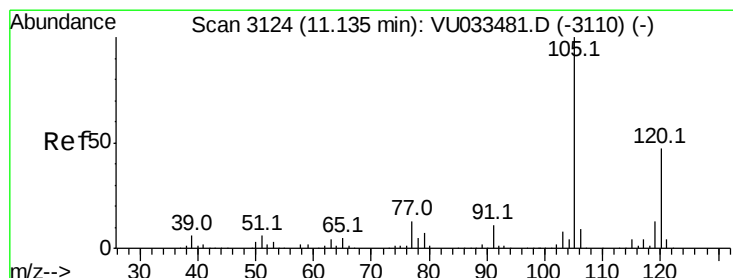
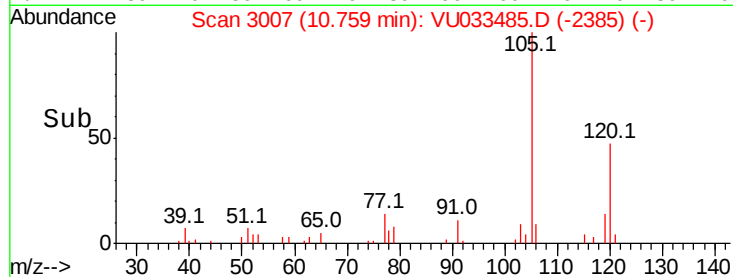
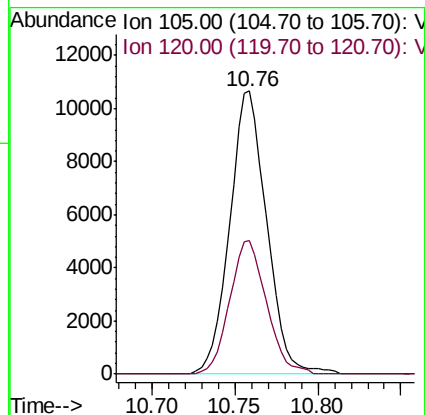
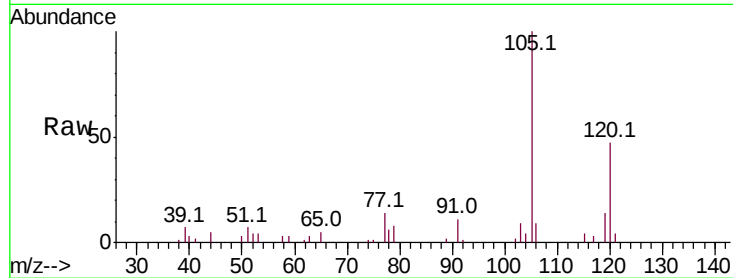
Ion Ratio Lower Upper

105 100

120 46.8 39.0 58.6

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#63

1,2,4-Trimethylbenzene

Concen: 2.125 ug/L

RT: 11.13 min Scan# 3124

Delta R.T. 0.00 min

Lab File: VU033485.D

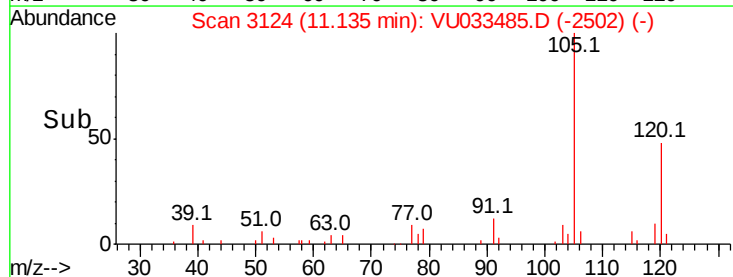
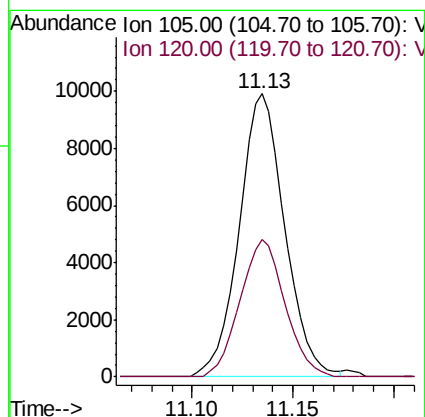
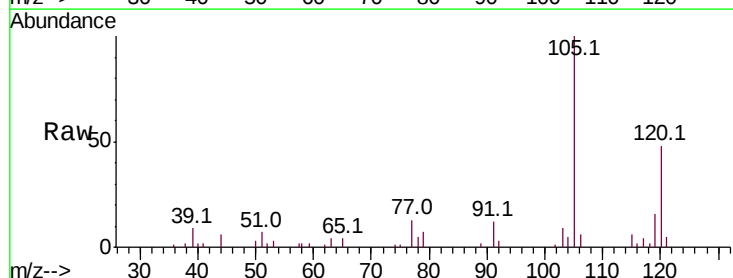
Acq: 30 Jul 2019 11:24

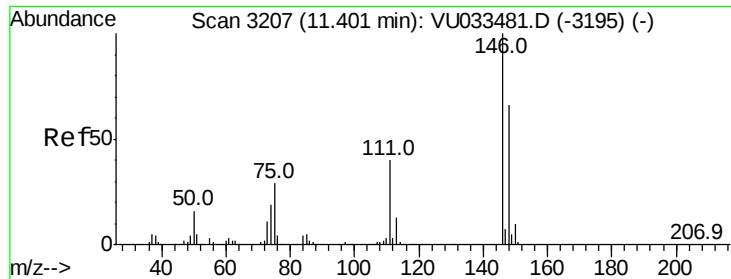
Tgt Ion:105 Resp: 15701

Ion Ratio Lower Upper

105 100

120 47.8 36.6 55.0





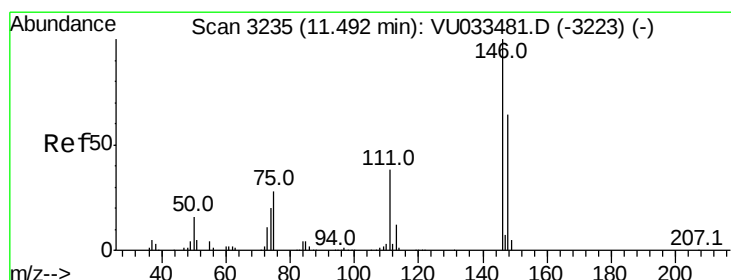
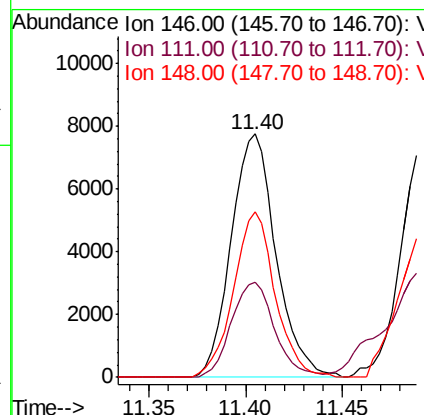
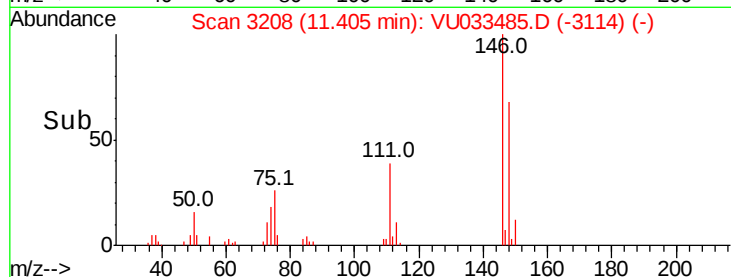
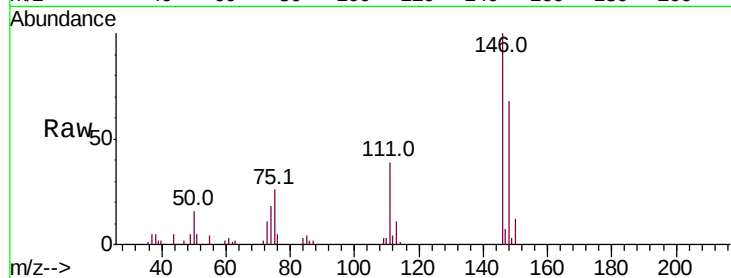
#64
1,3-Dichlorobenzene
Concen: 2.659 ug/L
RT: 11.40 min Scan# 3208
Delta R.T. 0.00 min
Lab File: VU033485.D
Acq: 30 Jul 2019 11:24

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	28.2	52.4
148	68.1	44.4	82.5

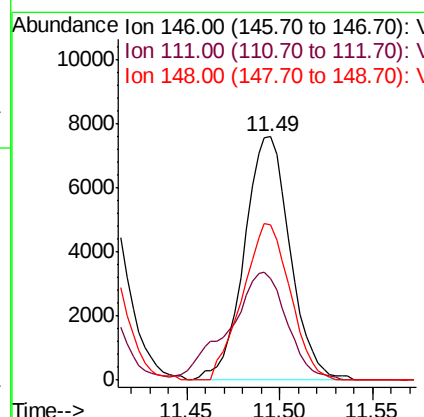
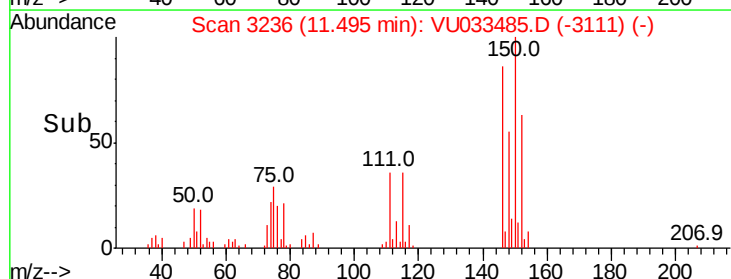
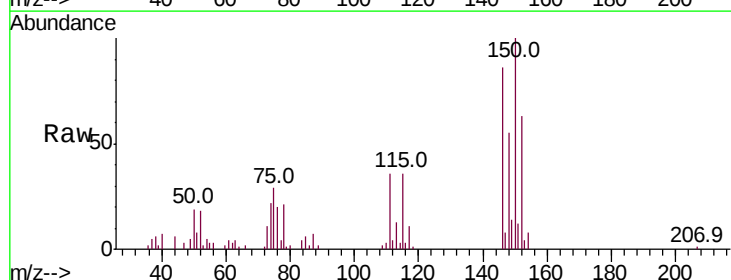
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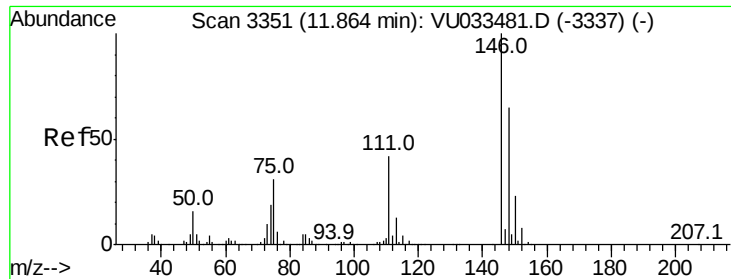
MMdadoda
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#65
1,4-Dichlorobenzene
Concen: 2.687 ug/L
RT: 11.49 min Scan# 3236
Delta R.T. 0.00 min
Lab File: VU033485.D
Acq: 30 Jul 2019 11:24

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.0	27.0	50.2
148	63.8	44.7	82.9





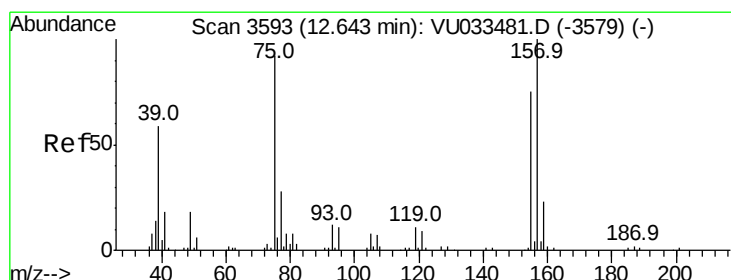
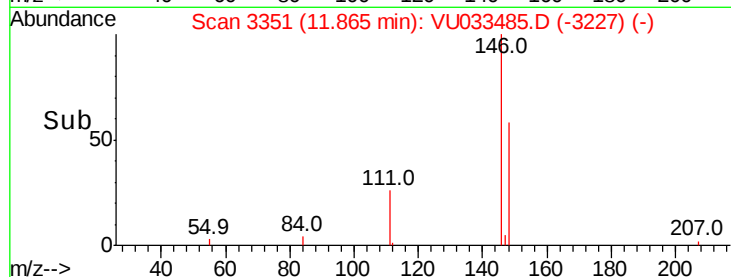
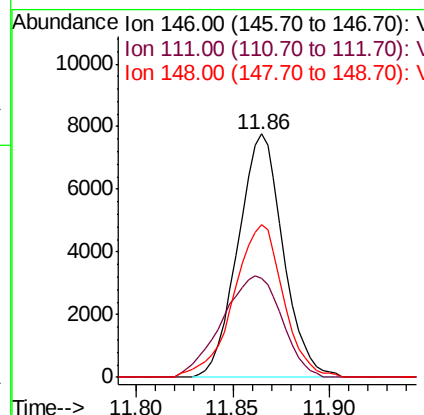
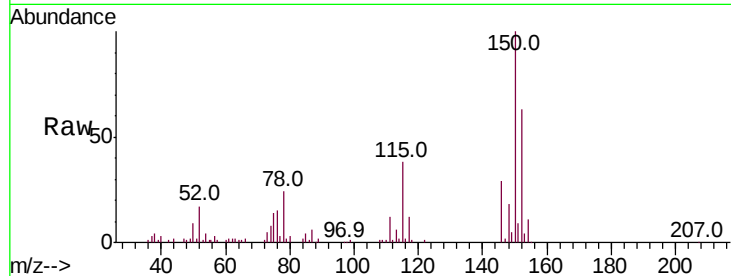
#67
 1,2-Dichlorobenzene
 Concen: 2.691 ug/L
 RT: 11.86 min Scan# 3351
 Delta R.T. 0.00 min
 Lab File: VU033485.D
 Acq: 30 Jul 2019 11:24

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.7	32.8	49.2
148	62.8	49.2	73.8

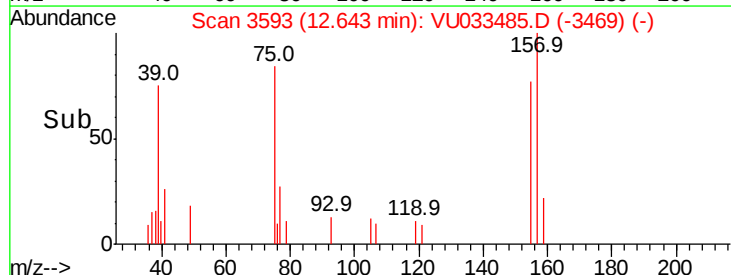
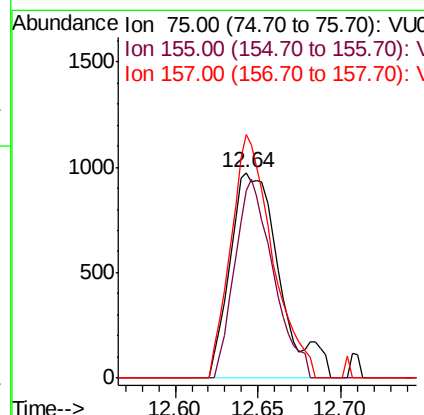
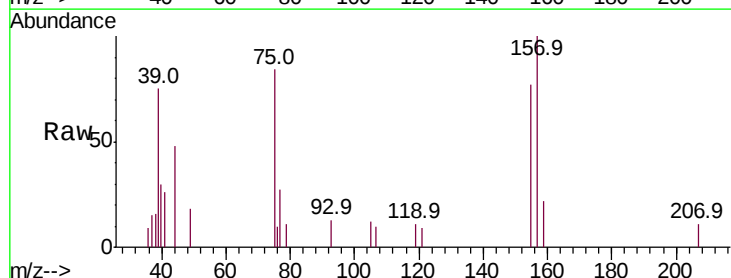
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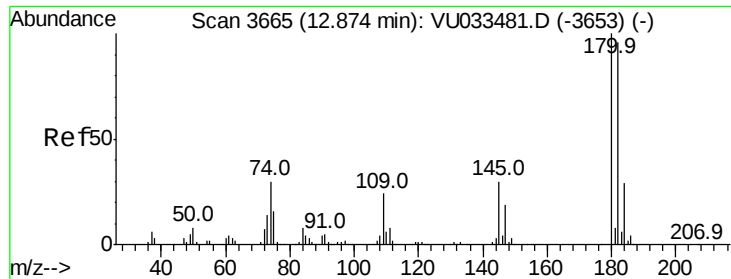
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.468 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. 0.00 min
 Lab File: VU033485.D
 Acq: 30 Jul 2019 11:24

Tgt Ion	Ratio	Lower	Upper
75	100		
155	91.5	64.8	97.2
157	118.6	87.1	130.7





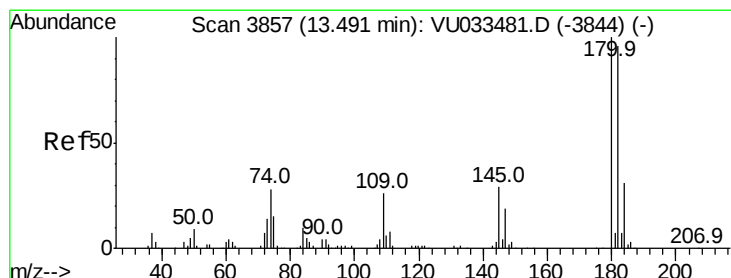
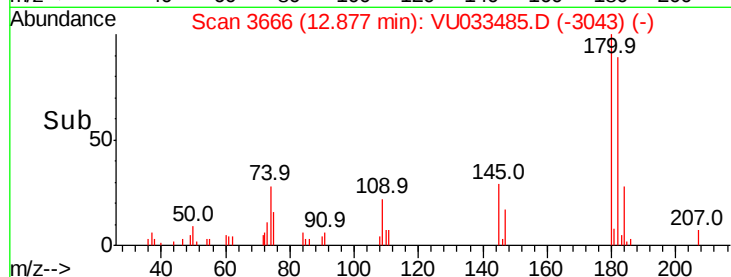
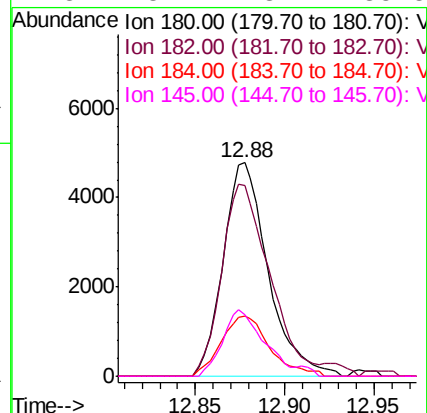
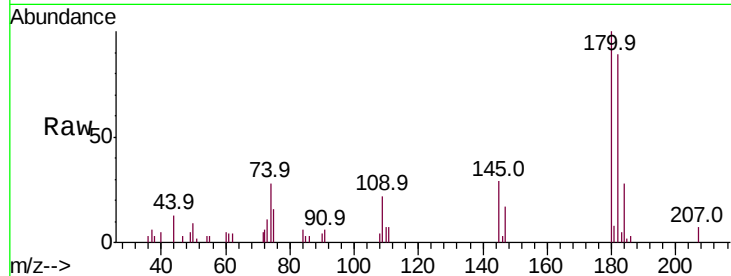
#69
 1,3,5-Trichlorobenzene
 Concen: 2.344 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033485.D
 Acq: 30 Jul 2019 11:24

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.2	114.4
184	30.2	24.1	36.1
145	28.7	23.7	35.5

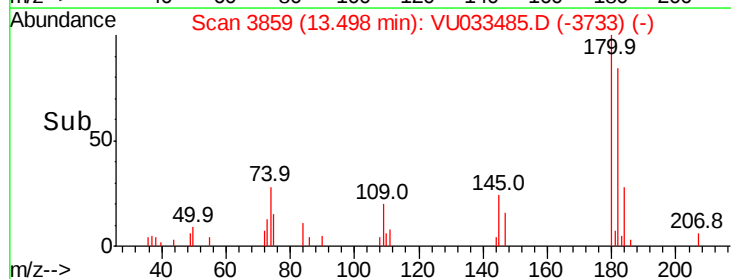
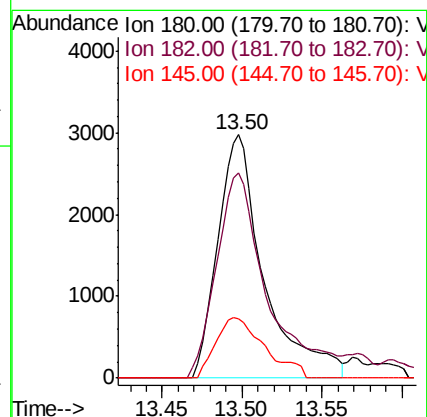
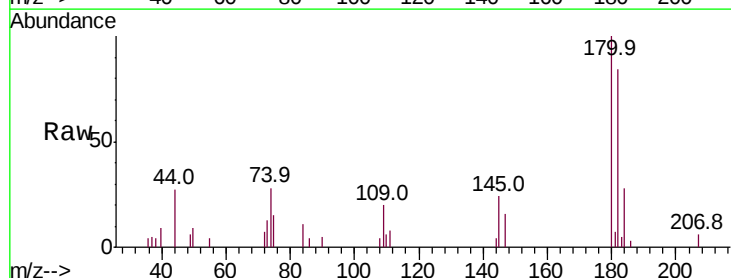
Manual Integrations
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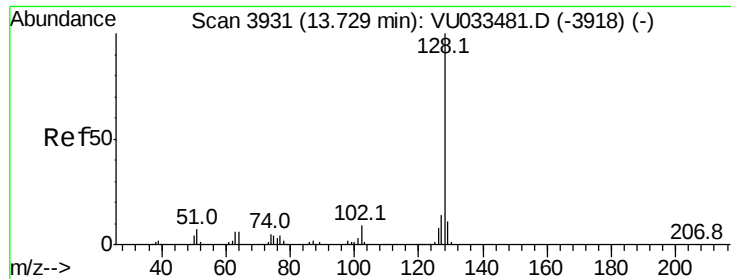
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#70
 1,2,4-trichlorobenzene
 Concen: 1.996 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.01 min
 Lab File: VU033485.D
 Acq: 30 Jul 2019 11:24

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.8	77.5	116.3
145	23.8	23.9	35.9#





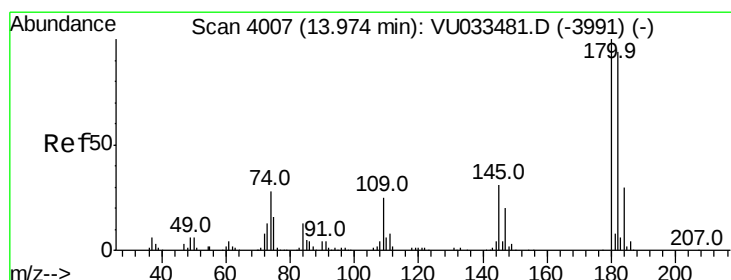
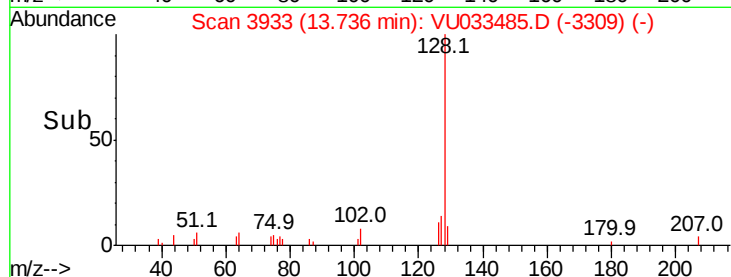
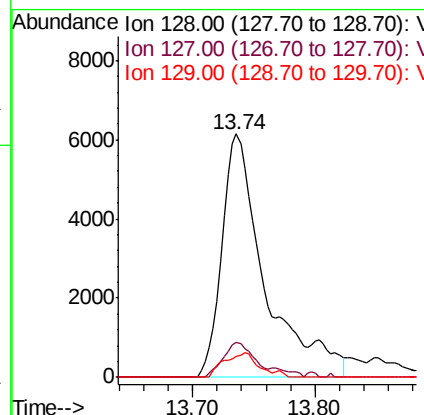
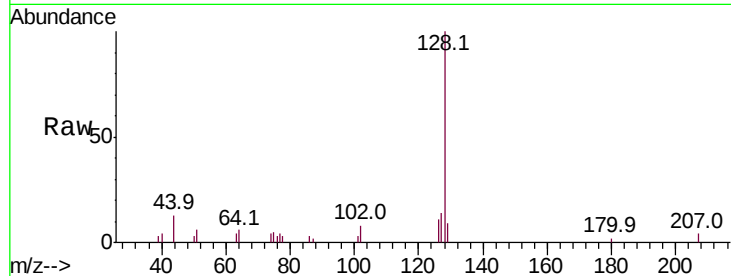
#71
Naphthalene
Concen: 1.734 ug/L m
RT: 13.74 min Scan# 3933
Delta R.T. 0.01 min
Lab File: VU033485.D
Acq: 30 Jul 2019 11:24

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
128	100		
127	10.1	10.8	16.2#
129	7.7	8.7	13.1#

Manual Integrations
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#72
1,2,3-Trichlorobenzene
Concen: 1.952 ug/L
RT: 13.98 min Scan# 4009
Delta R.T. 0.01 min
Lab File: VU033485.D
Acq: 30 Jul 2019 11:24

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.4	114.6
145	29.2	24.9	37.3

