

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080119\
 Data File : VU033541.D
 Acq On : 01 Aug 2019 11:17
 Operator : JC/SP
 Sample : MDL04
 Misc : 5.00u/5mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

MMDadoda
 8/2/2019 8:29:23 AM

Quant Time: Aug 02 02:14:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Aug 02 01:49:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	298224	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	293230	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	143011	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	102120	47.10	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.20%
7) Chloroethane-d5	1.67	69	102809	55.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	110.52%
11) 1,1-Dichloroethene-d2	2.26	63	139147	35.36	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.72%
21) 2-Butanone-d5	4.16	46	169083	117.74	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	117.74%
24) Chloroform-d	4.62	84	188737	51.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.86%
26) 1,2-Dichloroethane-d4	5.29	65	125658	54.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	109.18%
32) Benzene-d6	5.32	84	381883	52.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.08%
36) 1,2-Dichloropropane-d6	6.31	67	122280	53.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	107.32%
41) Toluene-d8	7.55	98	344706	50.61	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.22%
43) trans-1,3-Dichloropropene-	7.83	79	57471	50.84	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.68%
47) 2-Hexanone-d5	8.30	63	121675	112.47	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	112.47%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	187426	53.34	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	106.68%
64) 1,2-Dichlorobenzene-d4	11.85	152	140549	53.67	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.34%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.20	85	8842	3.144	ug/L	98
3) Chloromethane	1.32	50	9124	3.221	ug/L	93
5) Vinyl chloride	1.40	62	9623	3.169	ug/L #	80
6) Bromomethane	1.62	94	6285	2.346	ug/L	99
8) Chloroethane	1.69	64	7203	3.903	ug/L	94
9) Trichlorofluoromethane	1.87	101	12366	3.113	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	7701	3.824	ug/L	85
12) 1,1-Dichloroethene	2.27	96	6975	3.612	ug/L #	1
13) Acetone	2.32	43	9592	6.528	ug/L	93
14) Carbon disulfide	2.46	76	17966	2.966	ug/L	99
15) Methyl Acetate	2.61	43	7117m	3.043	ug/L	
16) Methylene chloride	2.69	84	7311	3.314	ug/L	87
17) trans-1,2-Dichloroethene	2.97	96	5705	2.820	ug/L	82
18) Methyl tert-butyl Ether	2.98	73	17748	2.876	ug/L	98
19) 1,1-Dichloroethane	3.43	63	11790	3.104	ug/L	98
20) cis-1,2-Dichloroethene	4.20	96	6833	3.009	ug/L	81
22) 2-Butanone	4.26	43	8422	4.801	ug/L #	66

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 QLast Update : Fri Aug 02 01:49:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.53	128	3646	3.077	uq/L	90
25) Chloroform	4.65	83	16525	4.135	uq/L	99
27) 1,2-Dichloroethane	5.39	62	10584	3.439	uq/L	99
29) Cyclohexane	4.97	56	8618	2.694	uq/L	93
30) 1,1,1-Trichloroethane	4.89	97	10510	3.115	uq/L	98
31) Carbon tetrachloride	5.11	117	8689	2.957	uq/L	99
33) Benzene	5.37	78	25691	3.037	uq/L	100
34) Trichloroethene	6.17	95	7332	3.286	uq/L	89
35) Methylcyclohexane	6.40	83	9631	2.766	uq/L	98
37) 1,2-Dichloropropane	6.41	63	6993m	3.088	uq/L	
38) Bromodichloromethane	6.74	83	8709	2.975	uq/L	99
39) cis-1,3-Dichloropropene	7.25	75	9923	2.808	uq/L	92
40) 4-Methyl-2-pentanone	7.45	43	17495	5.596	uq/L	98
42) Toluene	7.62	91	28341	3.116	uq/L	98
44) trans-1,3-Dichloropropene	7.86	75	10249	3.209	uq/L	99
45) 1,1,2-Trichloroethane	8.05	97	6870	3.196	uq/L	97
46) Tetrachloroethene	8.21	164	5216	2.863	uq/L	92
48) 2-Hexanone	8.35	43	16805	6.650	uq/L	99
49) Dibromochloromethane	8.46	129	7450	3.046	uq/L	99
50) 1,2-Dibromoethane	8.57	107	7140	2.999	uq/L	94
51) Chlorobenzene	9.10	112	18499	3.106	uq/L	99
52) Ethylbenzene	9.23	91	27137	2.771	uq/L	97
53) m,p-Xylene	9.36	106	9937	2.643	uq/L	99
54) o-xylene	9.76	106	9687	2.656	uq/L	96
55) Styrene	9.78	104	14535	2.346	uq/L	99
56) Isopropylbenzene	10.15	105	24137	2.533	uq/L	98
58) 1,1,2,2-Tetrachloroethane	10.44	83	12423	3.204	uq/L #	93
59) 1,2,3-Trichloropropane	10.48	75	8972	3.002	uq/L	95
61) Bromoform	9.94	173	5292	3.063	uq/L #	94
62) 1,3-Dichlorobenzene	11.40	146	13384	3.047	uq/L	94
63) 1,4-Dichlorobenzene	11.49	146	14357	3.146	uq/L	99
65) 1,2-Dichlorobenzene	11.86	146	14715	3.314	uq/L	95
66) 1,2-Dibromo-3-chloropropan	12.65	75	2591	3.158	uq/L #	80
67) 1,3,5-Trichlorobenzene	12.87	180	9711	2.741	uq/L	99
68) 1,2,4-trichlorobenzene	13.50	180	6786	2.241	uq/L	96
69) Naphthalene	13.74	128	15101	1.738	uq/L	95
70) 1,2,3-Trichlorobenzene	13.98	180	8093m	2.542	uq/L	

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

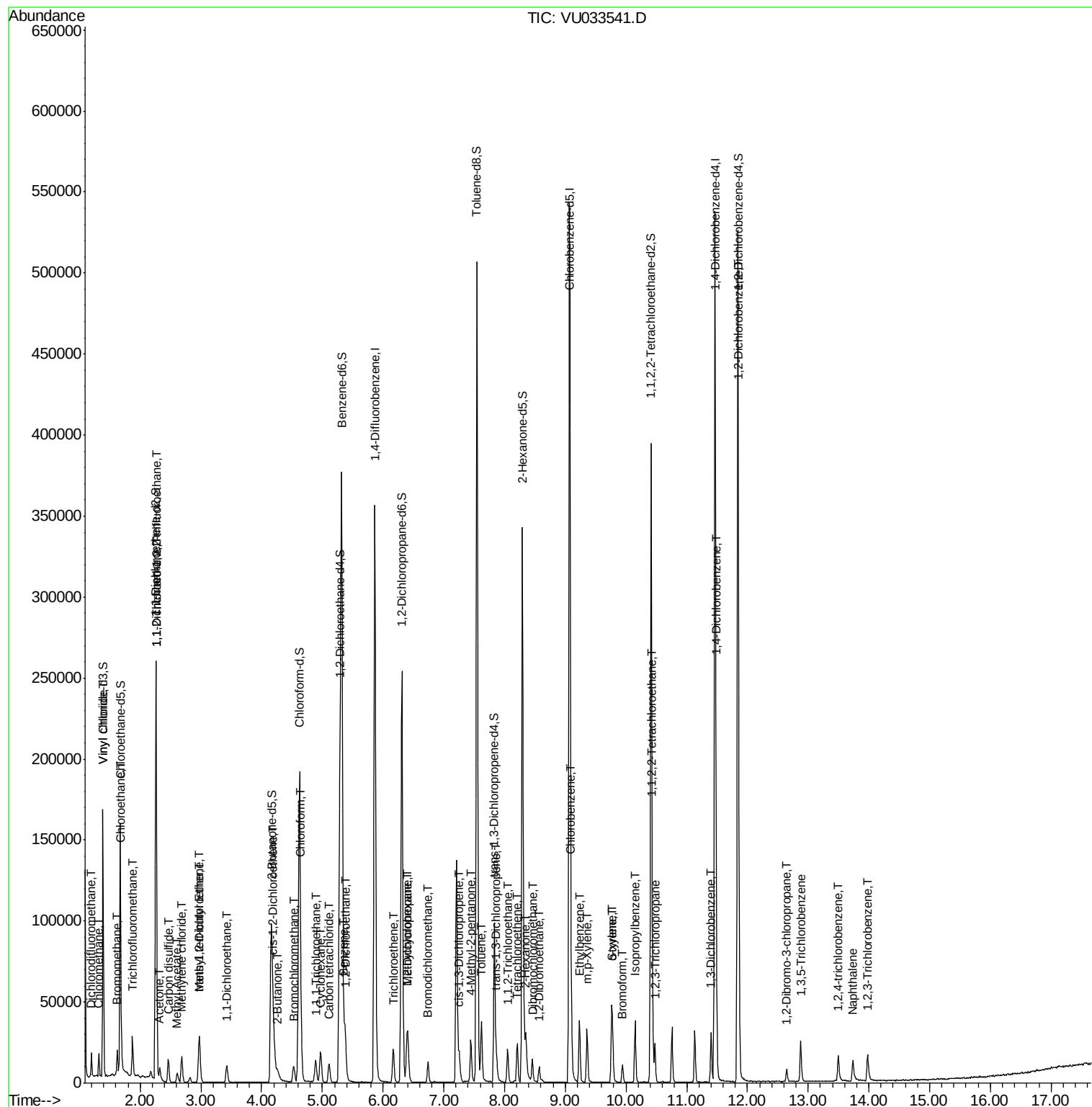
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU080119\
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ALS Vial : 7 Sample Multiplier: 1

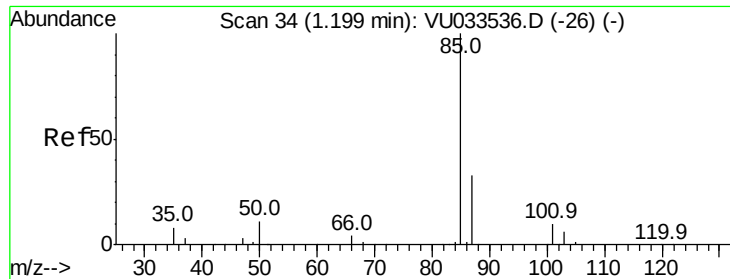
Instrument :
MSVOA_U
ClientSampleID :
MDL04

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QLast Update : Fri Aug 02 01:49:55 2019
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#2

Dichlorodifluoromethane

Concen: 3.144 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU033541.D

Acq: 01 Aug 2019 11:17

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 85 Resp: 8842

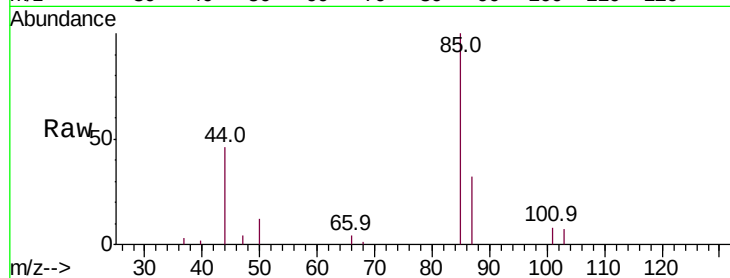
Ion Ratio Lower Upper

85 100

87 30.5 25.4 38.2

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Abundance Ion 85.00 (84.70 to 85.70): VU033541.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033541.D (-1) (-)

1.20

8000

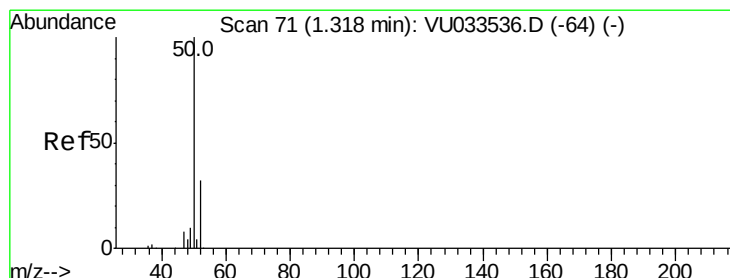
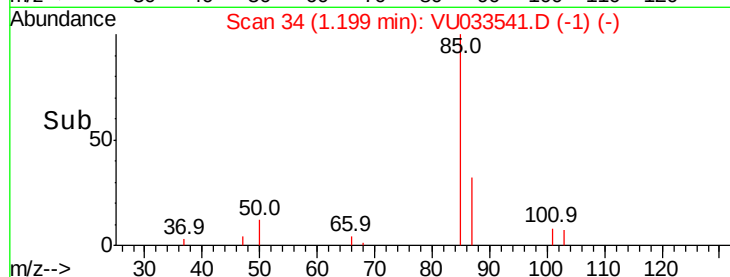
6000

4000

2000

0

Time--> 1.15 1.20 1.25



#3

Chloromethane

Concen: 3.221 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033541.D

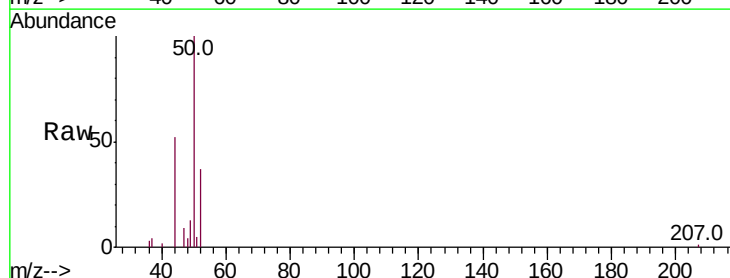
Acq: 01 Aug 2019 11:17

Tgt Ion: 50 Resp: 9124

Ion Ratio Lower Upper

50 100

52 36.7 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033541.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033541.D (-1) (-)

1.32

8000

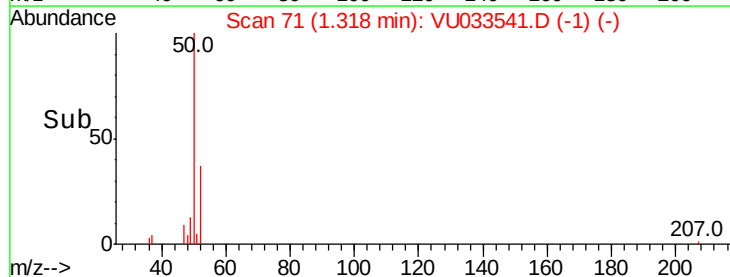
6000

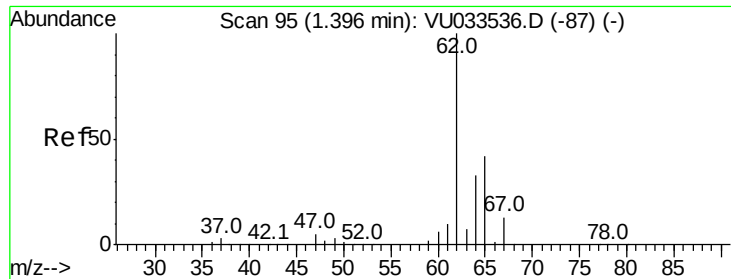
4000

2000

0

Time--> 1.28 1.30 1.32 1.34 1.36





#5

Vinyl chloride

Concen: 3.169 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU033541.D

Acq: 01 Aug 2019 11:17

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 62 Resp: 9623

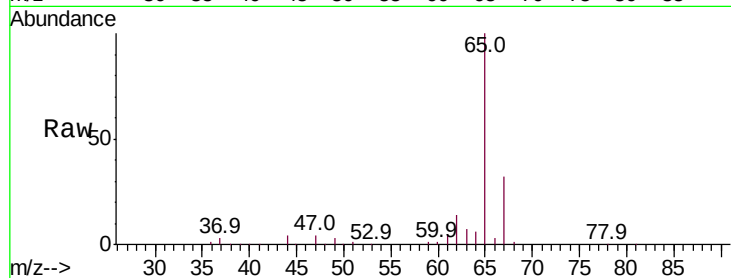
Ion Ratio Lower Upper

62 100

64 44.8 23.4 43.4#

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Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

10000

8000

6000

4000

2000

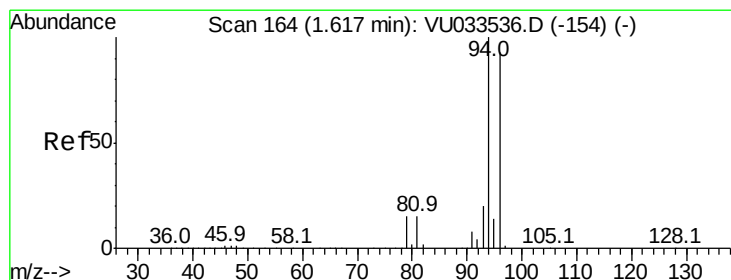
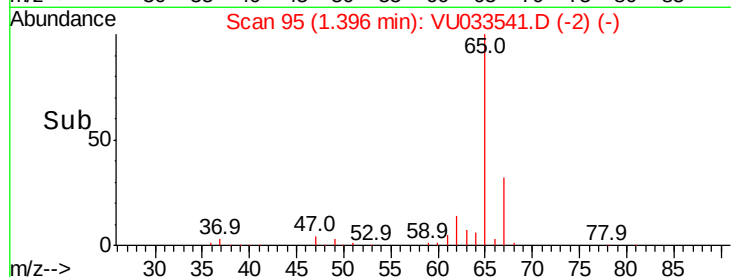
0

1.35

1.40

1.45

Time-->



#6

Bromomethane

Concen: 2.346 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU033541.D

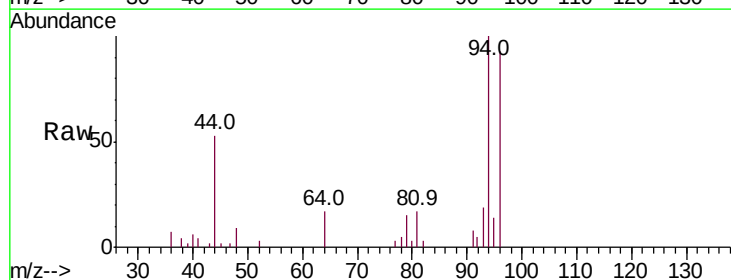
Acq: 01 Aug 2019 11:17

Tgt Ion: 94 Resp: 6285

Ion Ratio Lower Upper

94 100

96 93.1 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

6000

5000

4000

3000

2000

1000

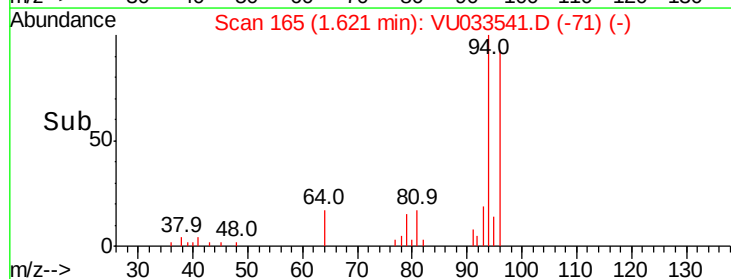
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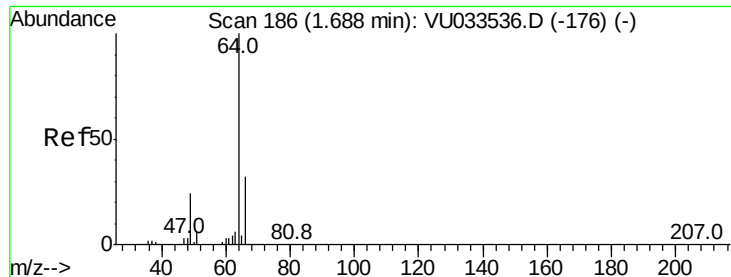
1.60

1.62

1.65

Time-->





#8

Chloroethane

Concen: 3.903 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU033541.D

Acq: 01 Aug 2019 11:17

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 64 Resp: 7203

Ion Ratio Lower Upper

64 100

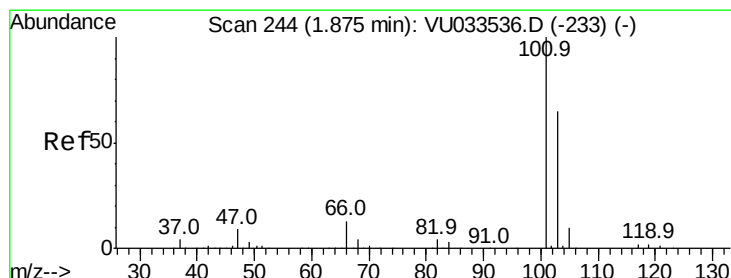
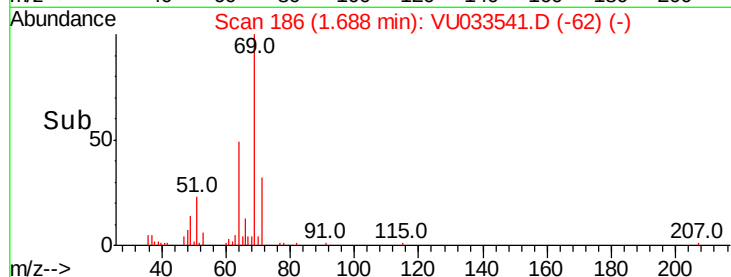
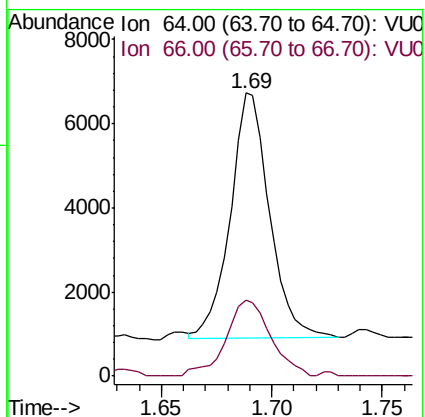
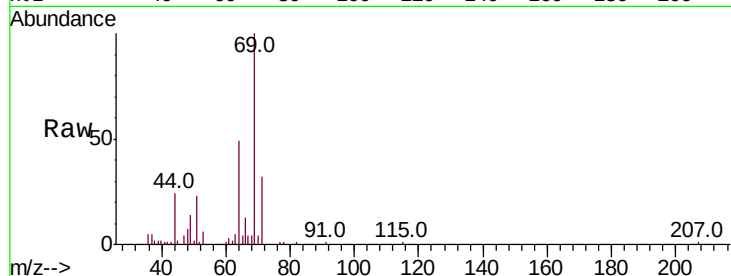
66 27.0 21.1 39.3

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 3.113 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033541.D

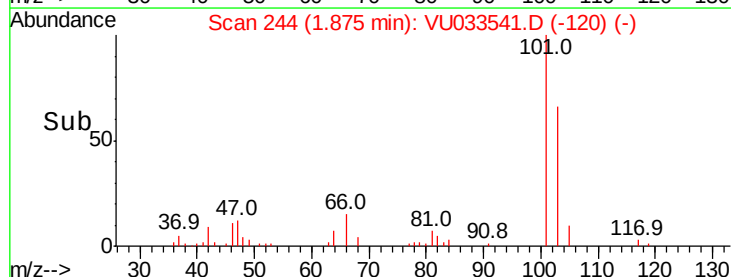
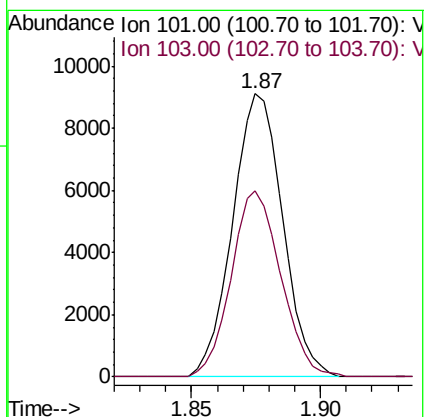
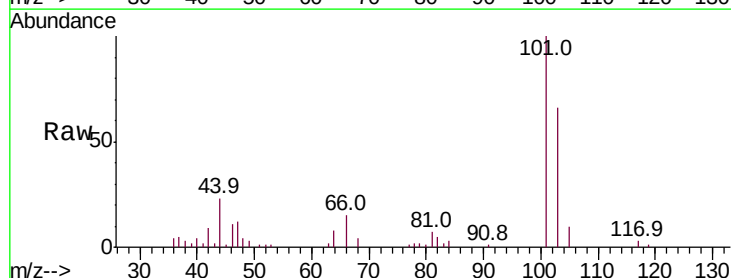
Acq: 01 Aug 2019 11:17

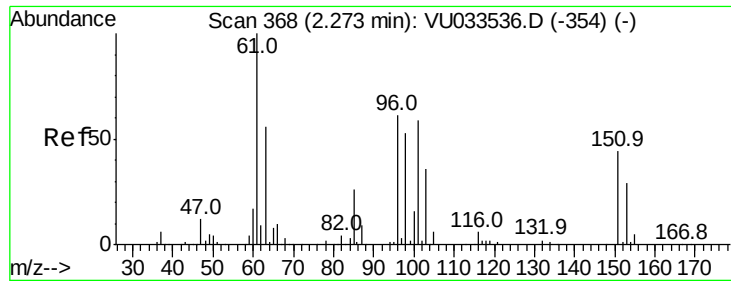
Tgt Ion: 101 Resp: 12366

Ion Ratio Lower Upper

101 100

103 64.9 51.6 77.4





#10

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

Concen: 3.824 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU033541.D

Acq: 01 Aug 2019 11:17

Instrument :

MSVOA_U

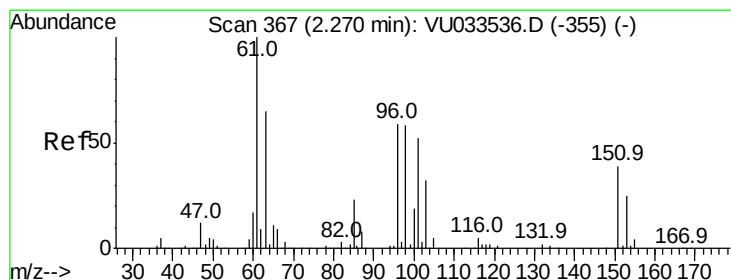
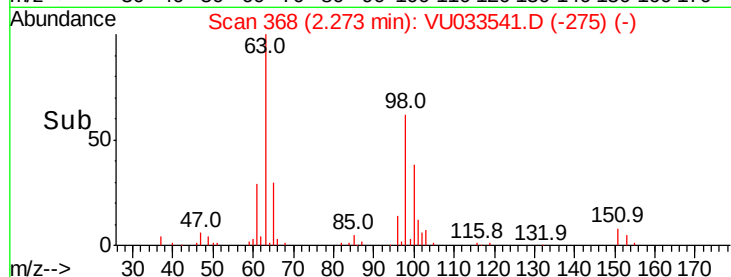
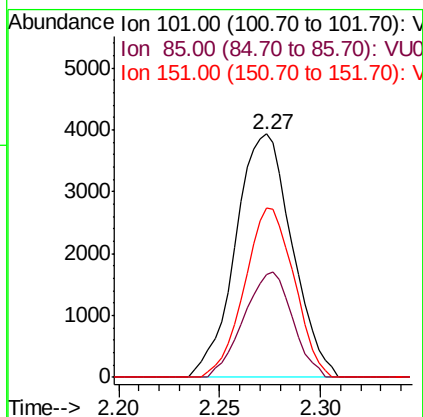
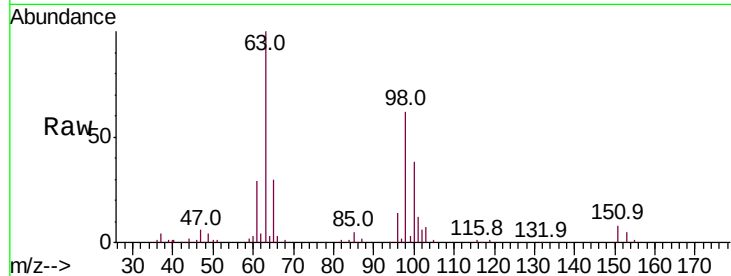
ClientSampled :

MDL04

Tot Ion:	101	Resp:	7701
Ion Ratio	Lower	Upper	
101	100		
85	37.2	35.8	53.8
151	61.1	60.1	90.1

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#12

1,1-Dichloroethene

Concen: 3.612 ug/L

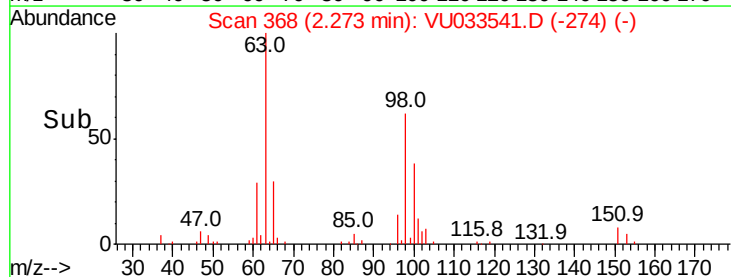
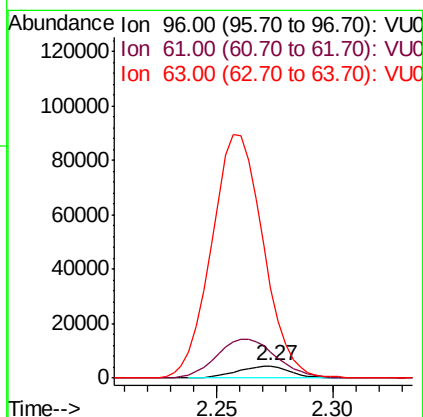
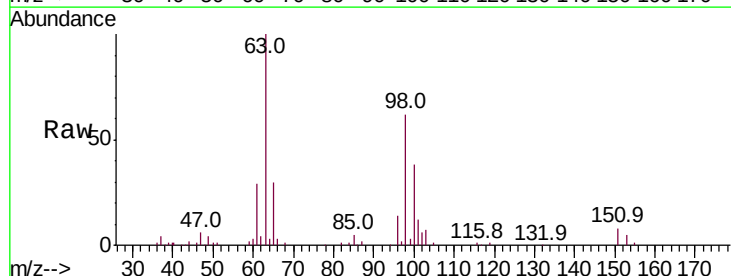
RT: 2.27 min Scan# 368

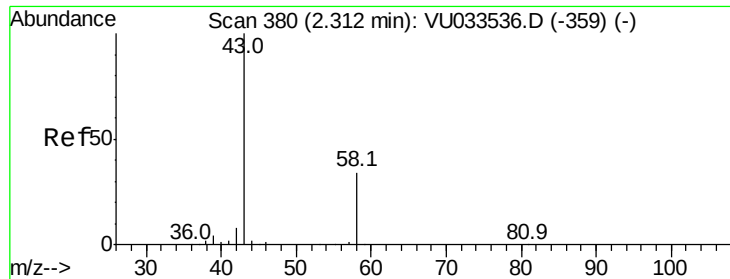
Delta R.T. 0.00 min

Lab File: VU033541.D

Acq: 01 Aug 2019 11:17

Tgt Ion:	96	Resp:	6975
Ion Ratio	Lower	Upper	
96	100		
61	217.8	119.3	221.5
63	740.2	86.6	160.8#





#13

Acetone

Concen: 6.528 ug/L

RT: 2.32 min Scan# 384

Delta R.T. 0.01 min

Lab File: VU033541.D

Acq: 01 Aug 2019 11:17

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 43 Resp: 9592

Ion Ratio Lower Upper

43 100

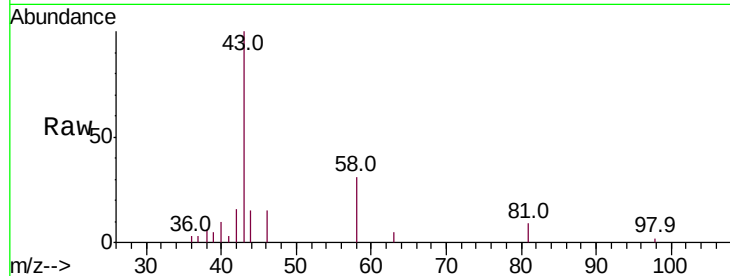
58 29.0 0.0 66.2

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VU033536.D (-359) (-)

Ion 58.00 (57.70 to 58.70): VU033536.D (-359) (-)

2.32

4000

3000

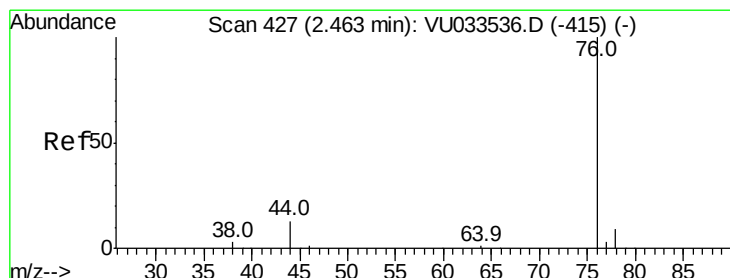
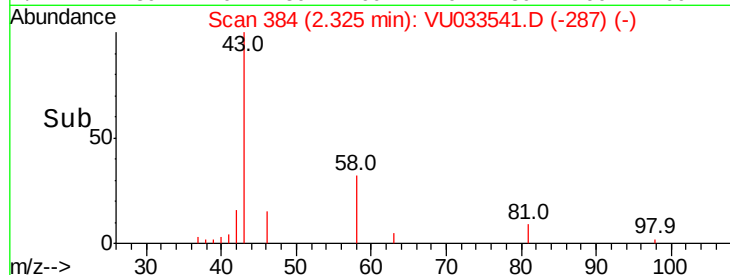
2000

1000

0

Time-->

2.25 2.30 2.35 2.40



#14

Carbon disulfide

Concen: 2.966 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033541.D

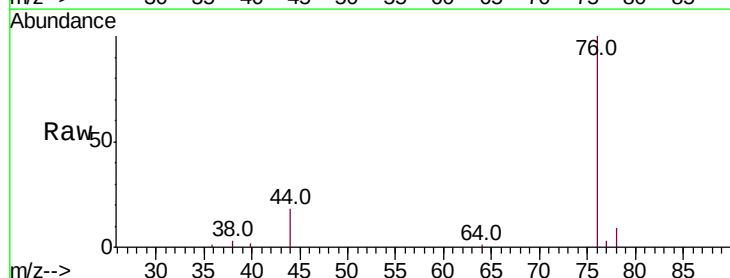
Acq: 01 Aug 2019 11:17

Tgt Ion: 76 Resp: 17966

Ion Ratio Lower Upper

76 100

78 8.7 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU033536.D (-415) (-)

Ion 78.00 (77.70 to 78.70): VU033536.D (-415) (-)

2.46

12000

10000

8000

6000

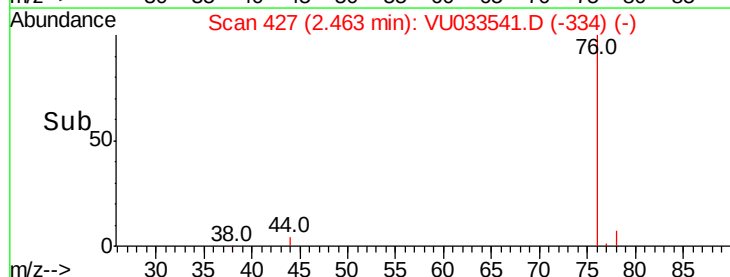
4000

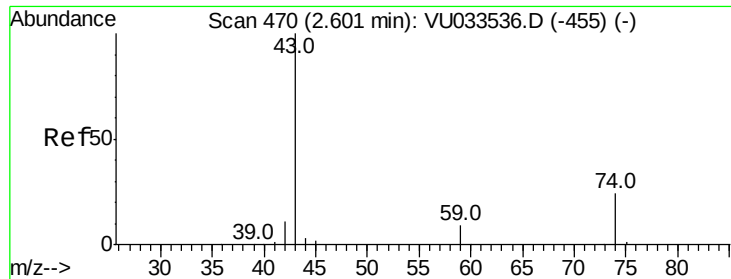
2000

0

Time-->

2.40 2.45 2.50





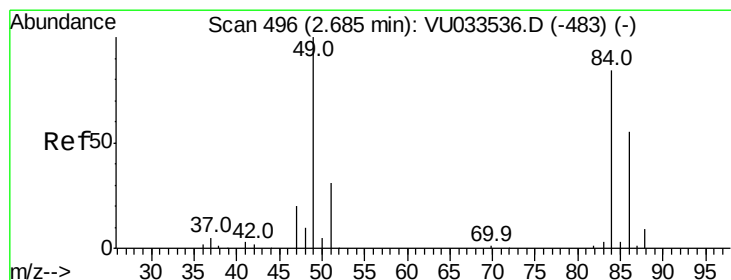
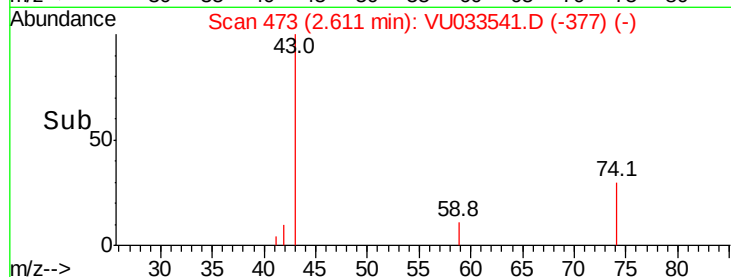
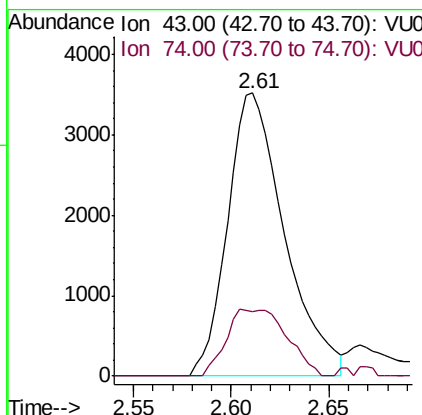
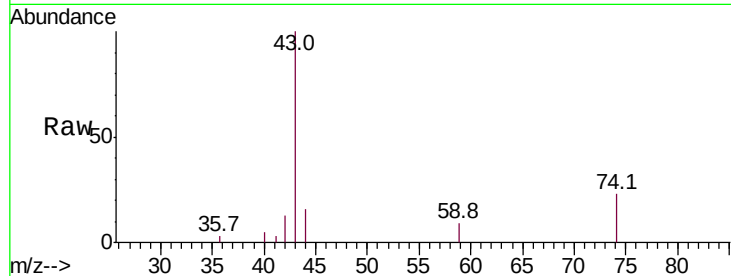
#15
Methvl Acetate
Concen: 3.043 ug/L m
RT: 2.61 min Scan# 473
Delta R.T. 0.01 min
Lab File: VU033541.D
Acq: 01 Aug 2019 11:17

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion: 43 Resp: 7117
Ion Ratio Lower Upper
43 100
74 0.9 20.1 30.1#

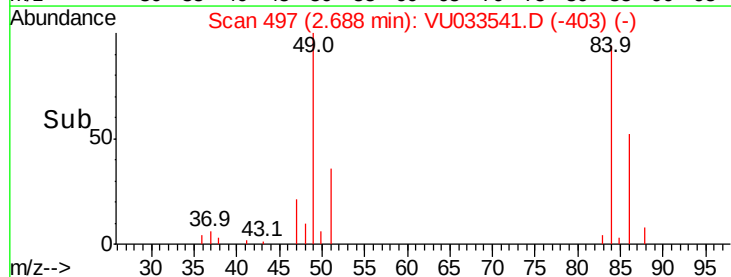
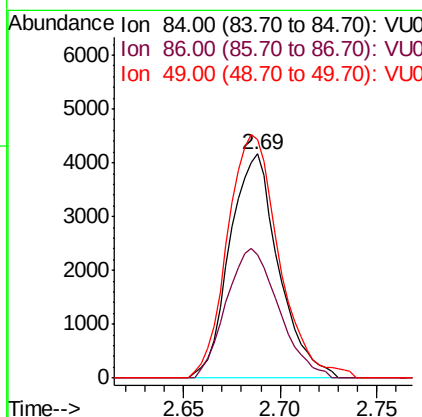
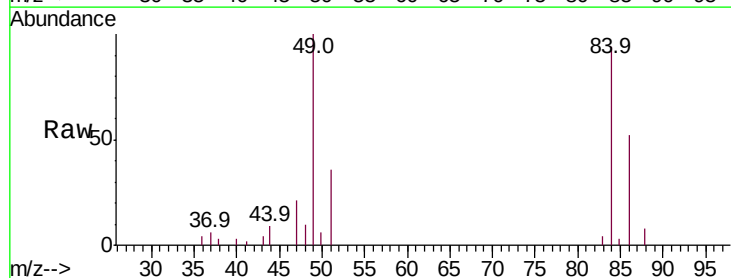
Manual Integrations
APPROVED

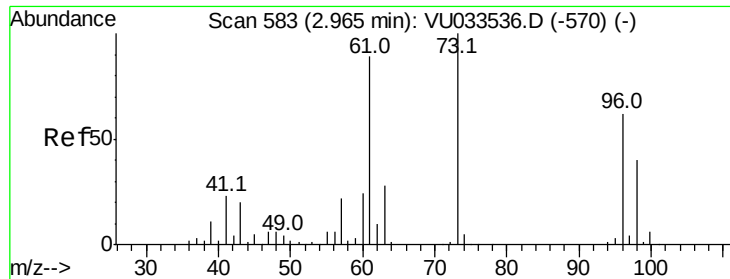
MMDadoda
8/2/2019 8:29:23 AM



#16
Methylene chloride
Concen: 3.314 ug/L
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU033541.D
Acq: 01 Aug 2019 11:17

Tgt Ion: 84 Resp: 7311
Ion Ratio Lower Upper
84 100
86 55.0 45.7 84.9
49 106.6 85.0 158.0





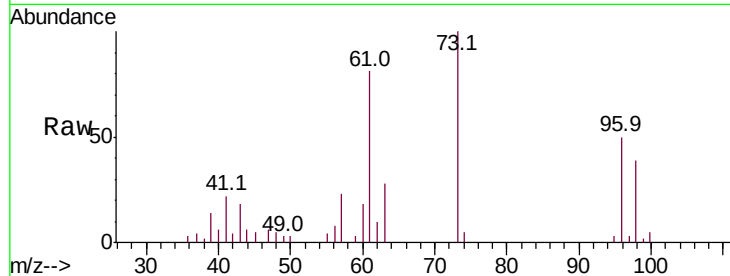
#17
trans-1,2-Dichloroethene
Concen: 2.820 ug/L
RT: 2.97 min Scan# 584
Delta R.T. 0.00 min
Lab File: VU033541.D
Acq: 01 Aug 2019 11:17

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
96	100		
61	161.6	98.3	182.5
98	78.9	44.3	82.3

Manual Integrations
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MMDadoda
8/2/2019 8:29:23 AM

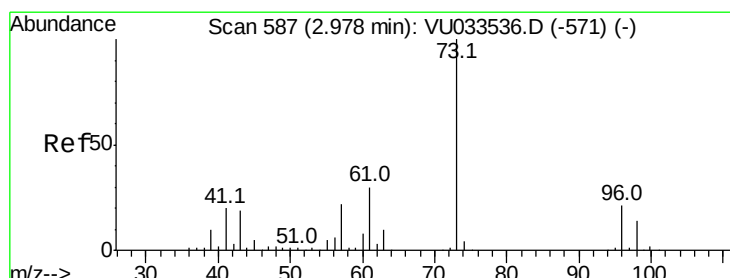
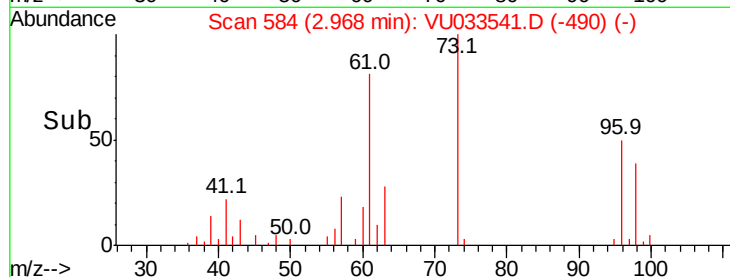
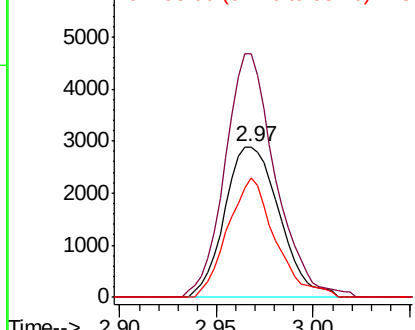


Abundance

Ion 96.00 (95.70 to 96.70): VU033536.D (-570) (-)

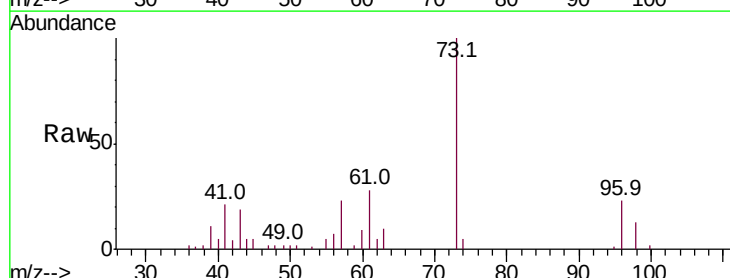
Ion 61.00 (60.70 to 61.70): VU033536.D (-570) (-)

Ion 98.00 (97.70 to 98.70): VU033536.D (-570) (-)



#18
Methyl tert-butyl Ether
Concen: 2.876 ug/L
RT: 2.98 min Scan# 588
Delta R.T. 0.00 min
Lab File: VU033541.D
Acq: 01 Aug 2019 11:17

Tgt Ion	Ratio	Lower	Upper
73	100		
43	20.9	15.4	23.2
57	22.4	17.4	26.2

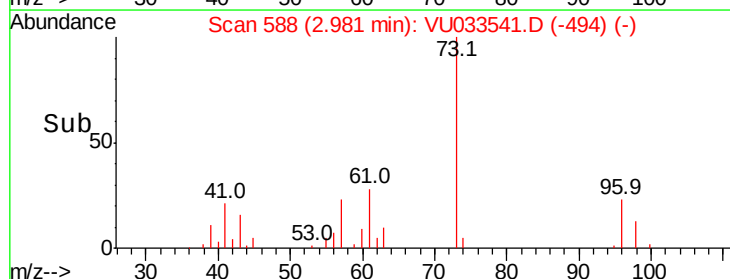
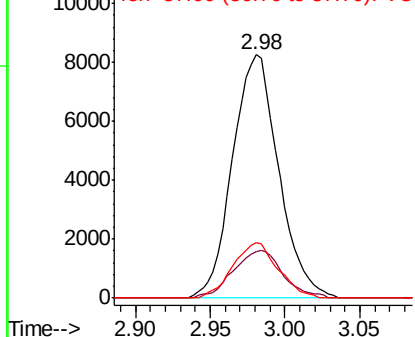


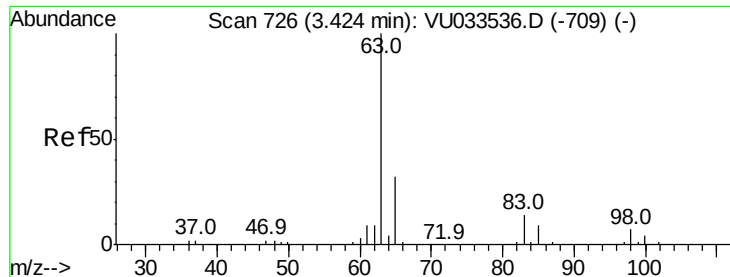
Abundance

Ion 73.00 (72.70 to 73.70): VU033536.D (-571) (-)

Ion 43.00 (42.70 to 43.70): VU033536.D (-571) (-)

Ion 57.00 (56.70 to 57.70): VU033536.D (-571) (-)





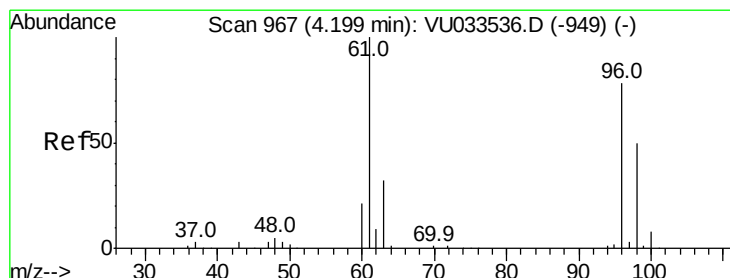
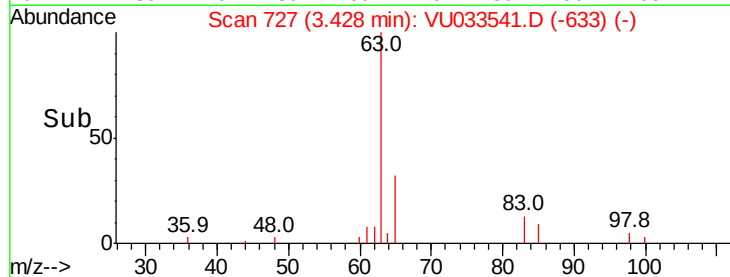
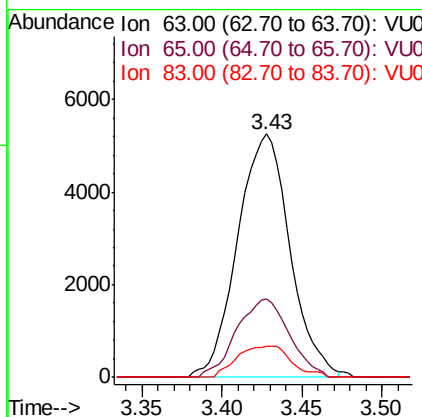
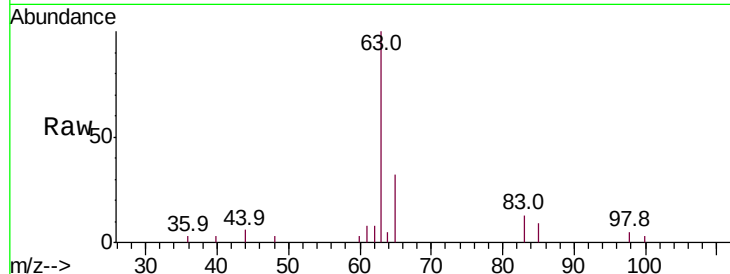
#19
 1,1-Dichloroethane
 Concen: 3.104 ug/L
 RT: 3.43 min Scan# 727
 Delta R.T. 0.00 min
 Lab File: VU033541.D
 Acq: 01 Aug 2019 11:17

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion:	63	Resp:	11790
Ion	Ratio	Lower	Upper
63	100		
65	32.3	22.0	40.8
83	12.7	9.5	17.7

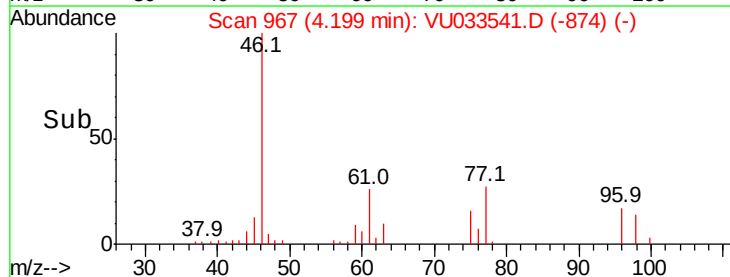
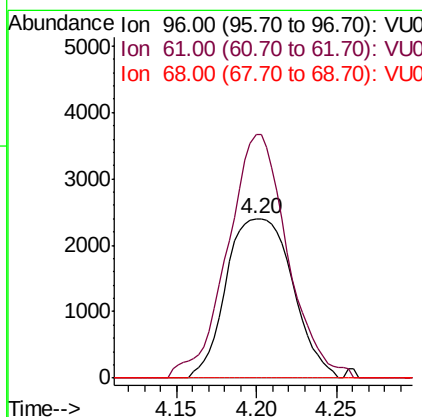
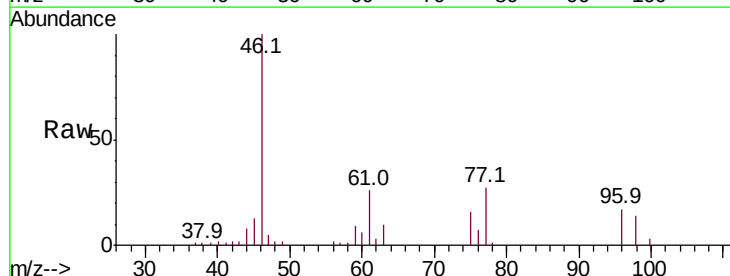
Manual Integrations
 APPROVED

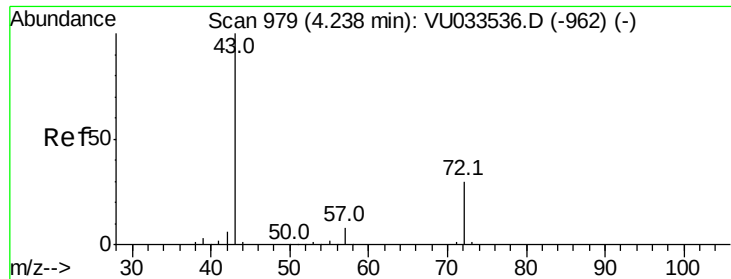
MMDadoda
 8/2/2019 8:29:23 AM



#20
 cis-1,2-Dichloroethene
 Concen: 3.009 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. -0.00 min
 Lab File: VU033541.D
 Acq: 01 Aug 2019 11:17

Tgt Ion:	96	Resp:	6833
Ion	Ratio	Lower	Upper
96	100		
61	152.6	91.3	169.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.801 ug/L

RT: 4.26 min Scan# 986

Delta R.T. 0.02 min

Lab File: VU033541.D

Acq: 01 Aug 2019 11:17

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 43 Resp: 8422

Ion Ratio Lower Upper

43 100

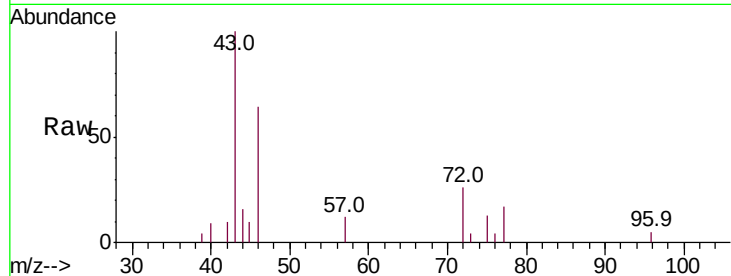
72 10.2 14.2 42.6#

Manual Integrations

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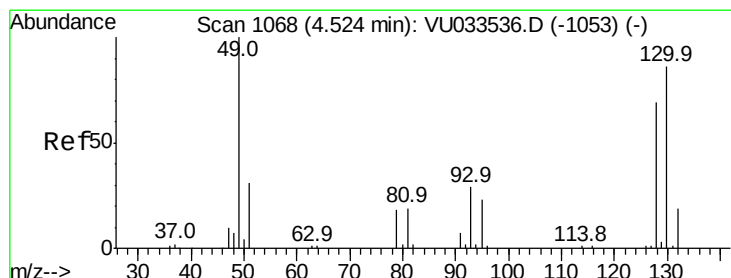
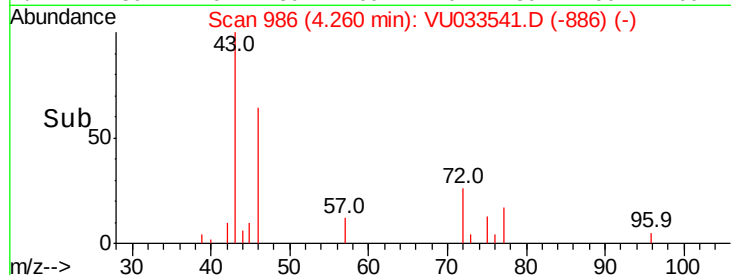
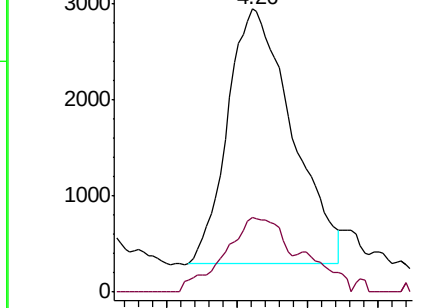
MMDadoda

8/2/2019 8:29:23 AM



Abundance Ion 43.00 (42.70 to 43.70): VU033536.D (-962) (-)

Ion 72.00 (71.70 to 72.70): VU033536.D (-962) (-)



#23

Bromochloromethane

Concen: 3.077 ug/L

RT: 4.53 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VU033541.D

Acq: 01 Aug 2019 11:17

Tgt Ion: 128 Resp: 3646

Ion Ratio Lower Upper

128 100

49 143.4 108.4 201.2

130 117.2 89.7 166.5

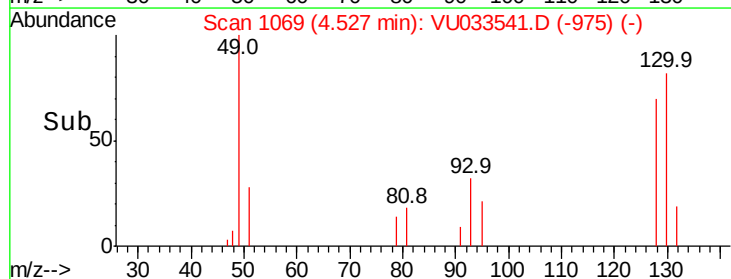
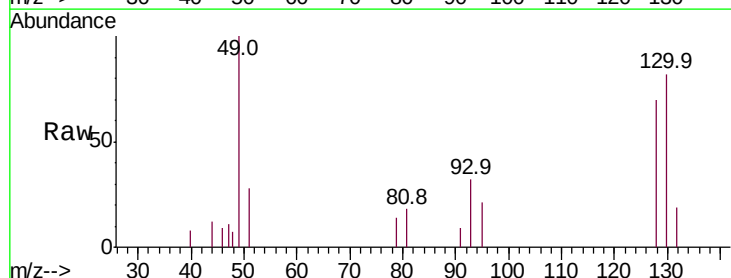
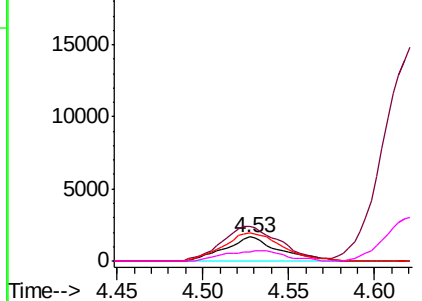
51 39.9 38.9 58.3

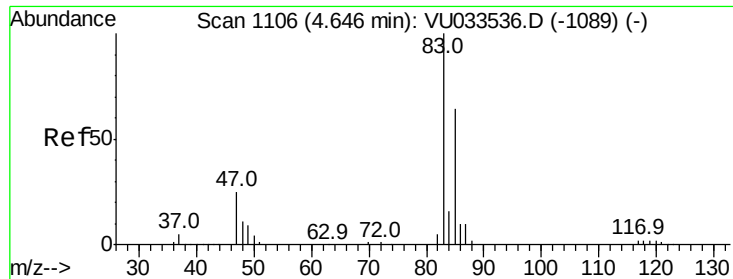
Abundance Ion 128.00 (127.70 to 128.70): VU033536.D (-1053) (-)

Ion 49.00 (48.70 to 49.70): VU033536.D (-1053) (-)

Ion 130.00 (129.70 to 130.70): VU033536.D (-1053) (-)

Ion 51.00 (50.70 to 51.70): VU033536.D (-1053) (-)





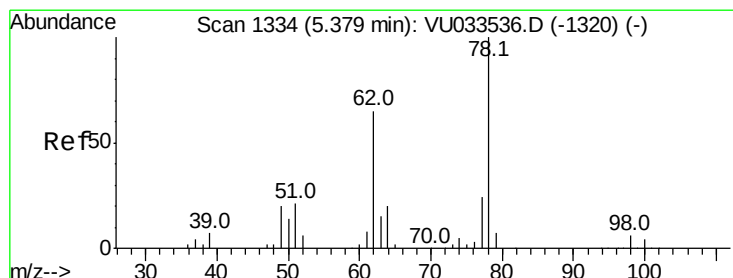
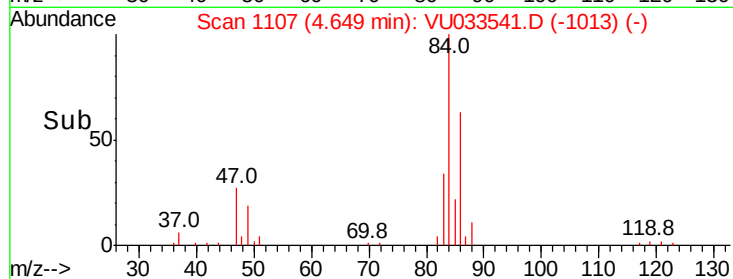
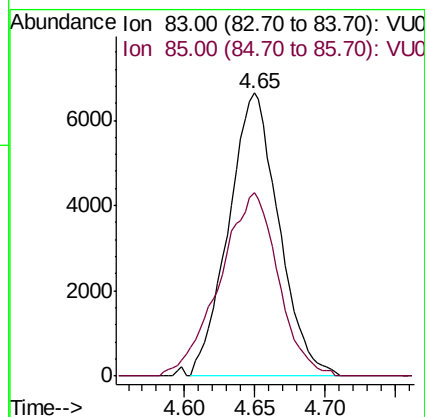
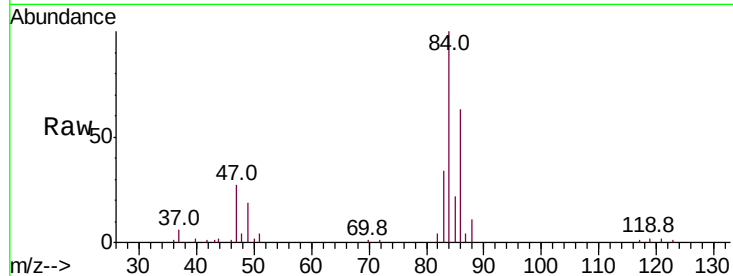
#25
Chloroform
Concen: 4.135 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU033541.D
Acq: 01 Aug 2019 11:17

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion: 83 Resp: 16525
Ion Ratio Lower Upper
83 100
85 64.7 45.6 84.8

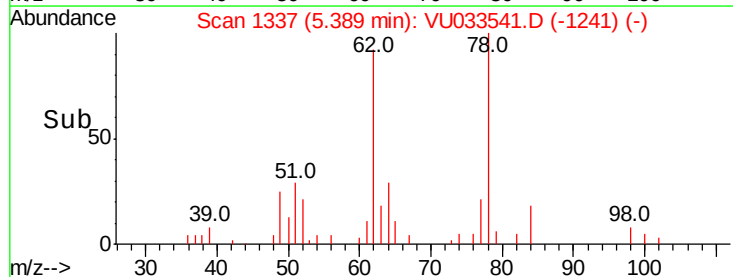
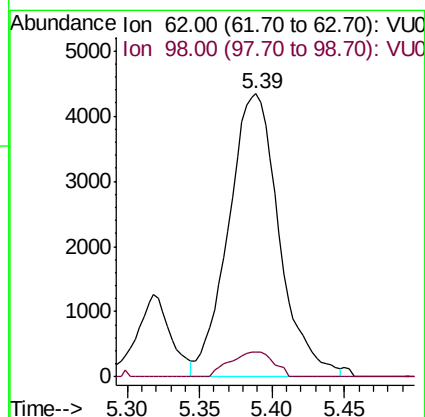
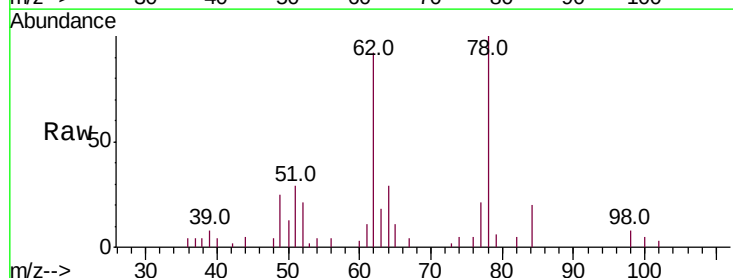
Manual Integrations
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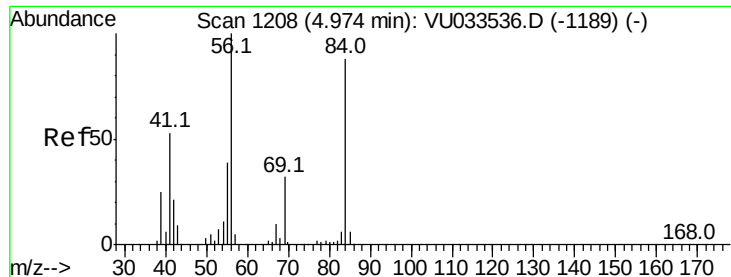
MMDadoda
8/2/2019 8:29:23 AM



#27
1,2-Dichloroethane
Concen: 3.439 ug/L
RT: 5.39 min Scan# 1337
Delta R.T. 0.01 min
Lab File: VU033541.D
Acq: 01 Aug 2019 11:17

Tgt Ion: 62 Resp: 10584
Ion Ratio Lower Upper
62 100
98 8.6 7.2 10.8





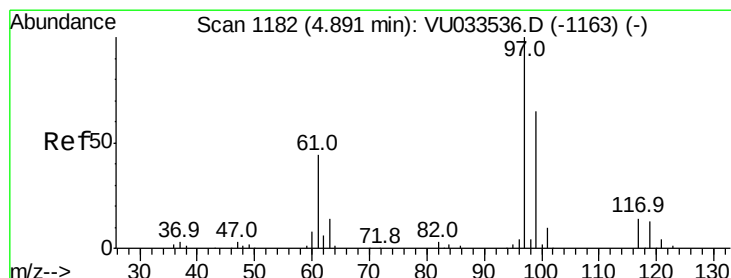
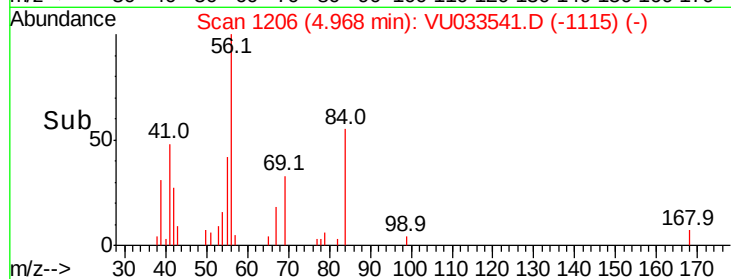
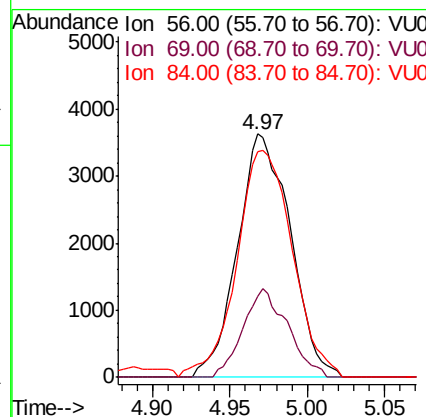
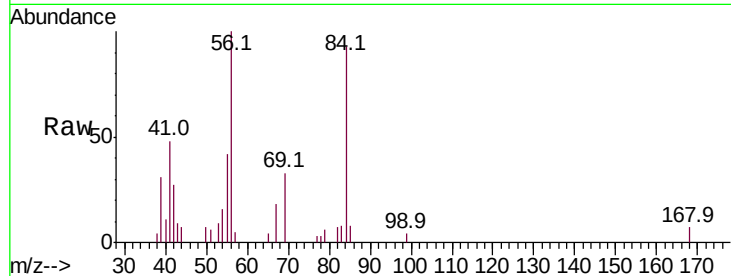
#29
Cyclohexane
Concen: 2.694 ug/L
RT: 4.97 min Scan# 1206
Delta R.T. -0.01 min
Lab File: VU033541.D
Acq: 01 Aug 2019 11:17

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.7	25.0	37.6
84	97.8	71.6	107.4

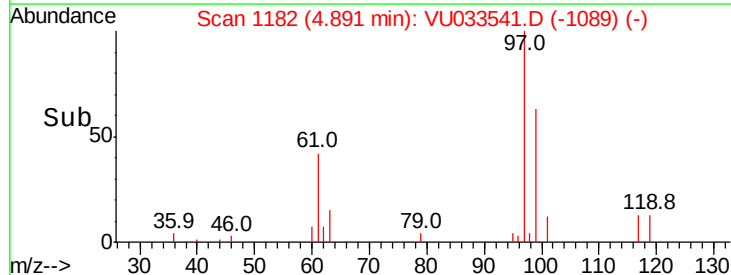
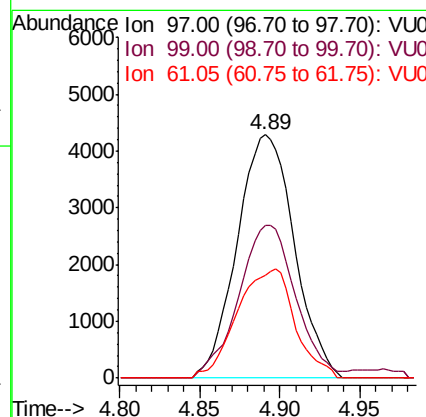
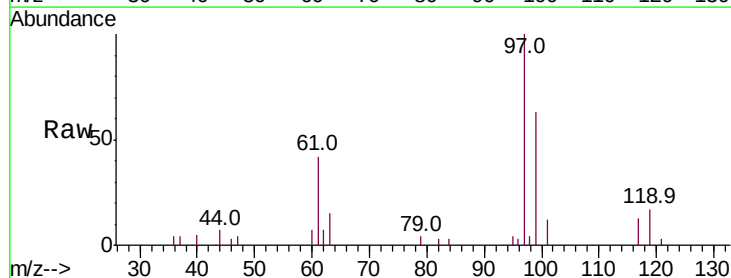
Manual Integrations
APPROVED

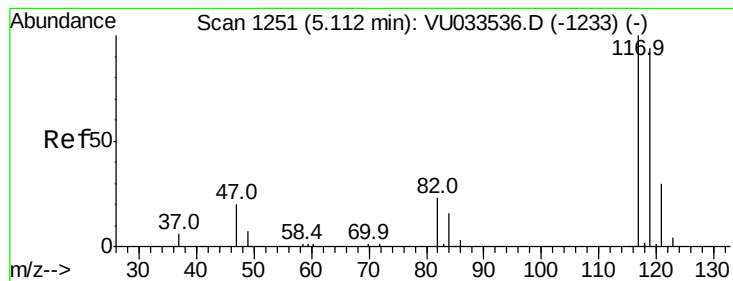
MMDadoda
8/2/2019 8:29:23 AM



#30
1,1,1-Trichloroethane
Concen: 3.115 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU033541.D
Acq: 01 Aug 2019 11:17

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.6	51.1	76.7
61	45.3	35.5	53.3





#31

Carbon tetrachloride

Concen: 2.957 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. -0.00 min

Lab File: VU033541.D

Acq: 01 Aug 2019 11:17

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion:117 Resp: 8689

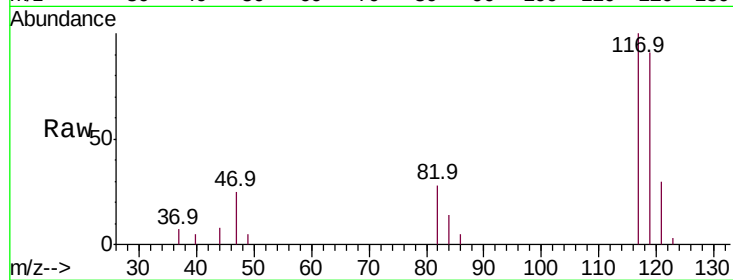
Ion Ratio Lower Upper

117 100

119 94.8 77.0 115.4

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

4000

3000

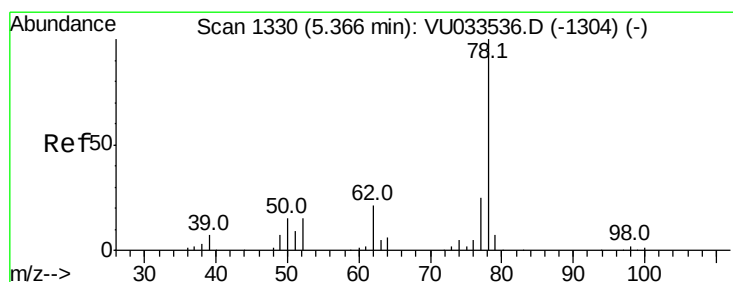
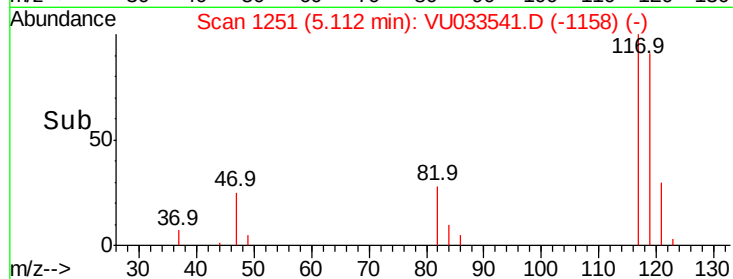
2000

1000

0

5.05 5.10 5.15

Time-->



#33

Benzene

Concen: 3.037 ug/L

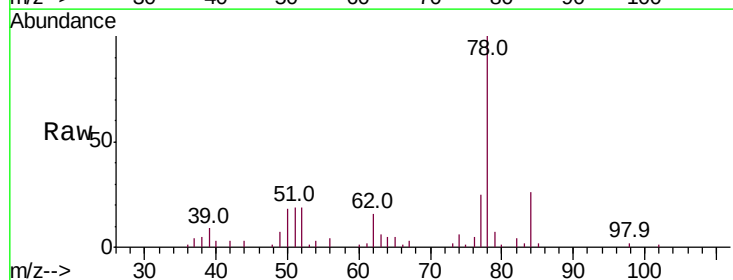
RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VU033541.D

Acq: 01 Aug 2019 11:17

Tgt Ion: 78 Resp: 25691



Abundance Ion 78.00 (77.70 to 78.70): VU0

12000

10000

8000

6000

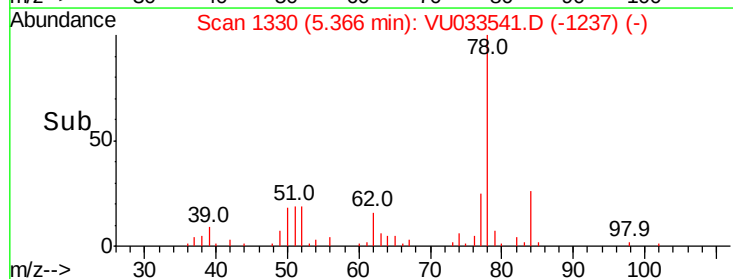
4000

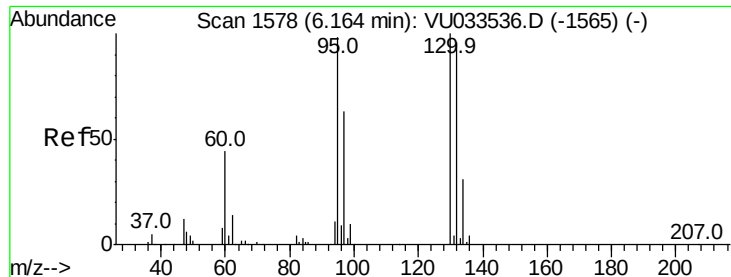
2000

0

5.30 5.35 5.40 5.45

Time-->





#34

Trichloroethene

Concen: 3.286 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU033541.D

Acq: 01 Aug 2019 11:17

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 95 Resp: 7332

Ion Ratio Lower Upper

95 100

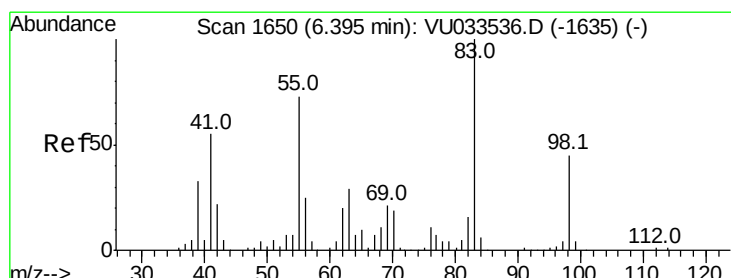
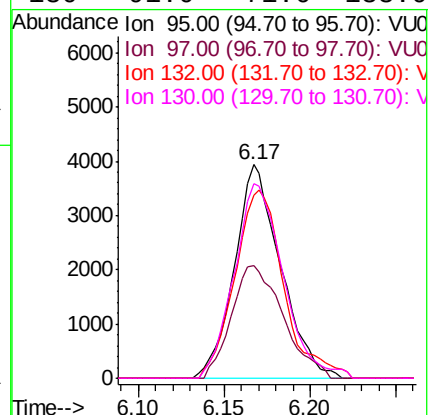
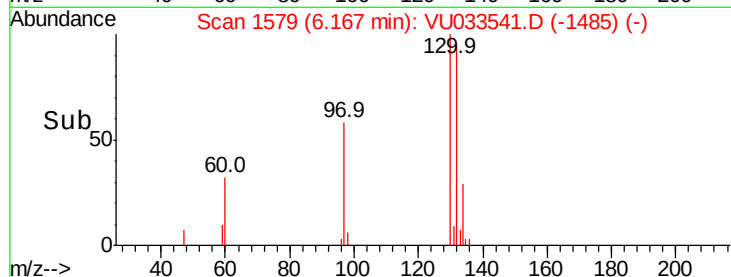
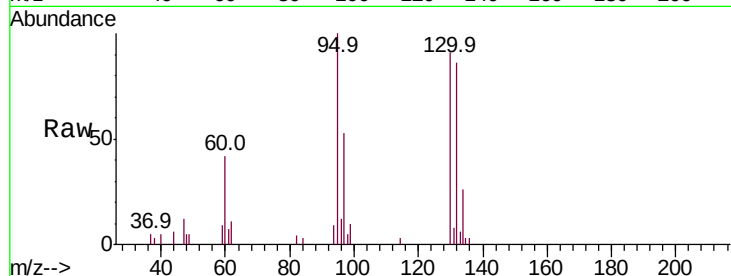
97 52.8 44.7 83.1

132 85.7 66.8 124.0

130 91.0 71.6 133.0

Manual Integrations
APPROVED

MMDadoda
8/2/2019 8:29:23 AM



#35

Methylcyclohexane

Concen: 2.766 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VU033541.D

Acq: 01 Aug 2019 11:17

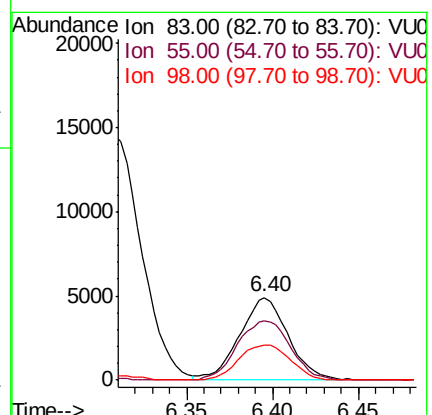
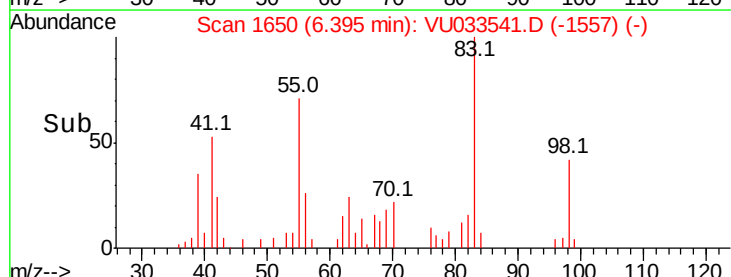
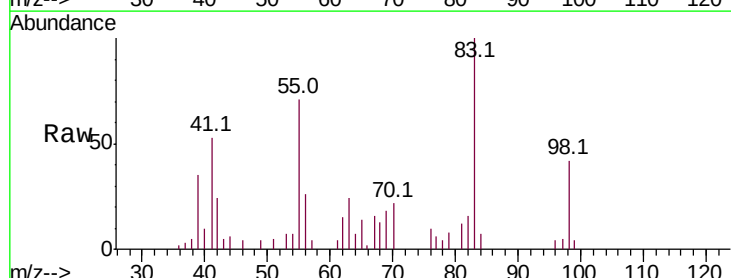
Tgt Ion: 83 Resp: 9631

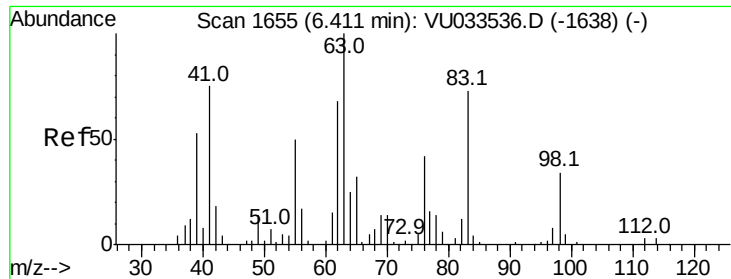
Ion Ratio Lower Upper

83 100

55 78.4 60.2 90.4

98 45.4 36.5 54.7





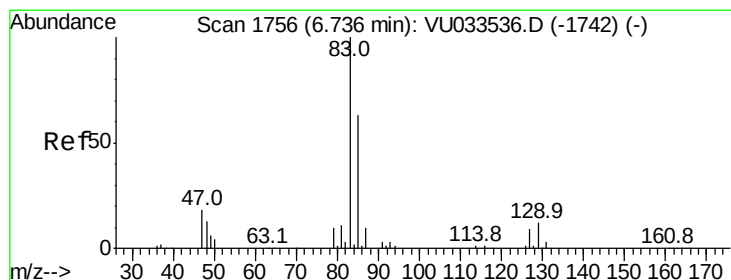
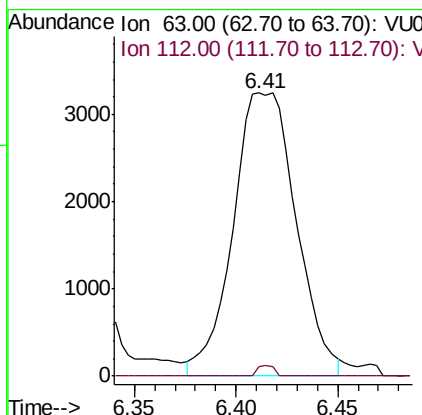
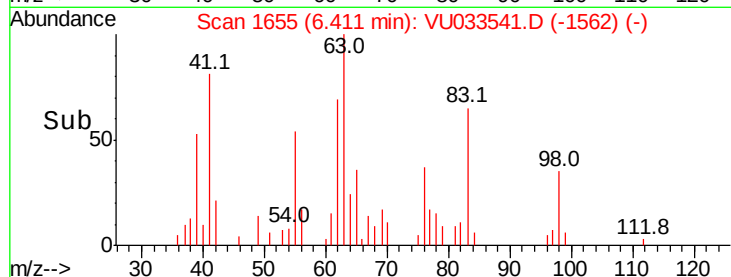
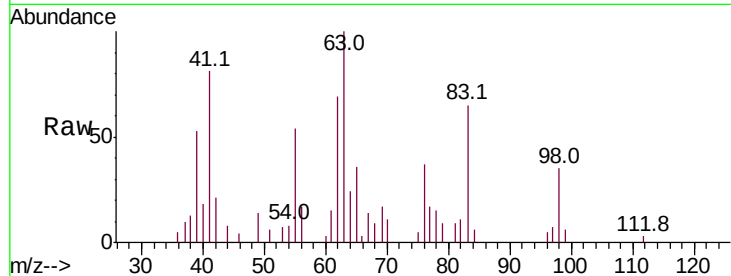
#37
 1,2-Dichloropropane
 Concen: 3.088 ug/L m
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033541.D
 Acq: 01 Aug 2019 11:17

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tot Ion: 63 Resp: 6993
 Ion Ratio Lower Upper
 63 100
 112 0.9 3.0 4.6#

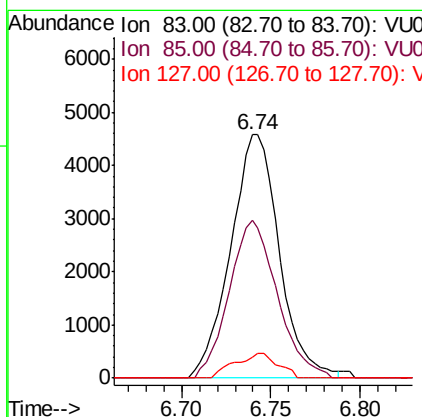
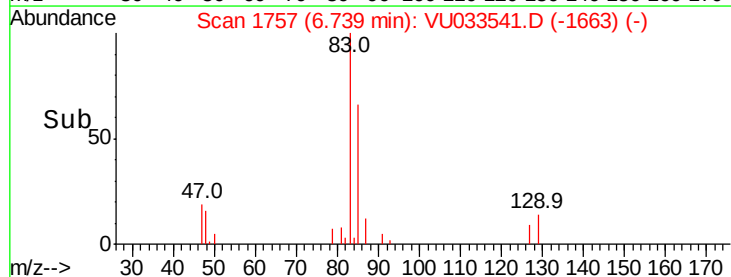
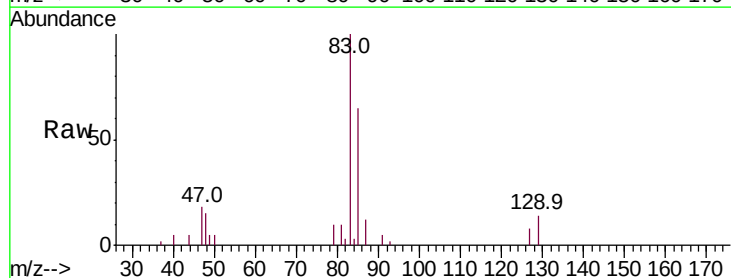
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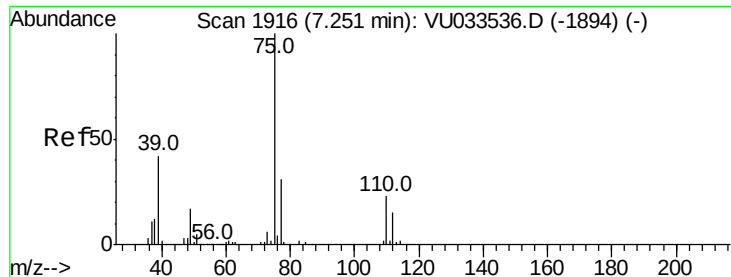
MMDadoda
 8/2/2019 8:29:23 AM



#38
 Bromodichloromethane
 Concen: 2.975 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033541.D
 Acq: 01 Aug 2019 11:17

Tgt Ion: 83 Resp: 8709
 Ion Ratio Lower Upper
 83 100
 85 64.9 45.1 83.9
 127 8.4 7.2 10.8





#39

cis-1,3-Dichloropropene

Concen: 2.808 ug/L

RT: 7.25 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VU033541.D

Acq: 01 Aug 2019 11:17

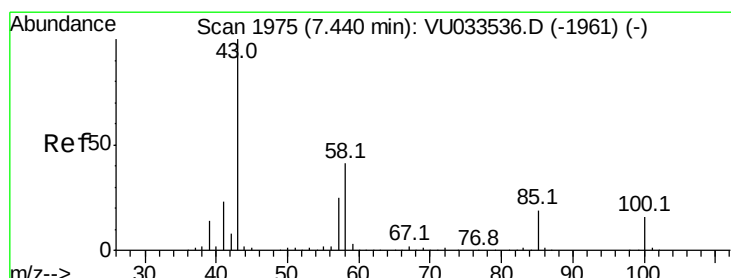
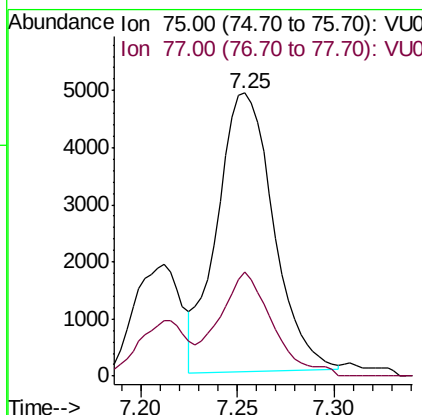
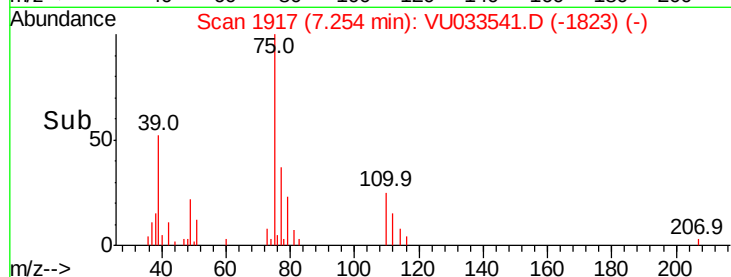
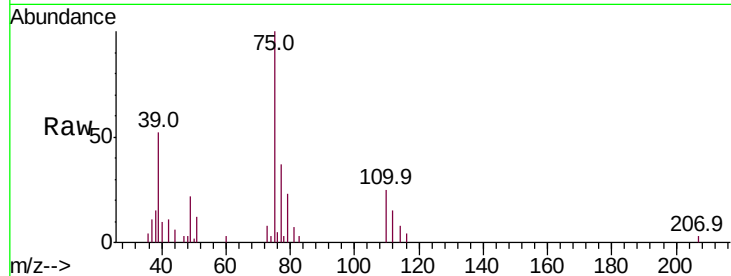
Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion: 75 Resp: 9923

Ion	Ratio	Lower	Upper
75	100		
77	36.6	22.3	41.5

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#40

4-Methyl-2-pentanone

Concen: 5.596 ug/L

RT: 7.45 min Scan# 1977

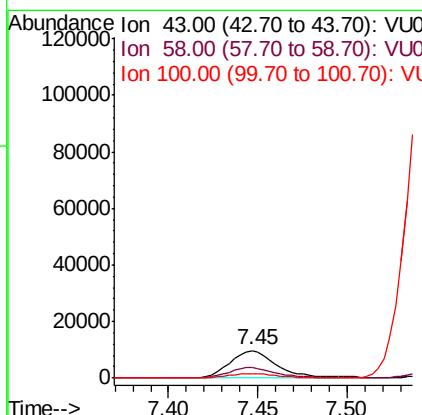
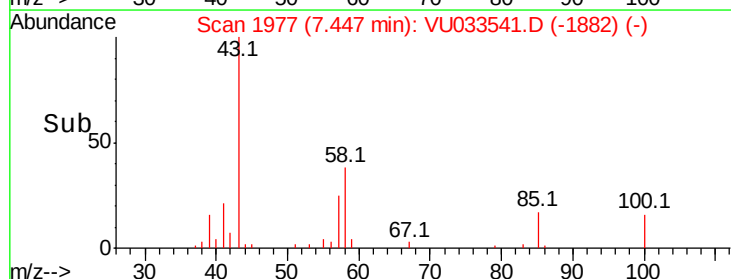
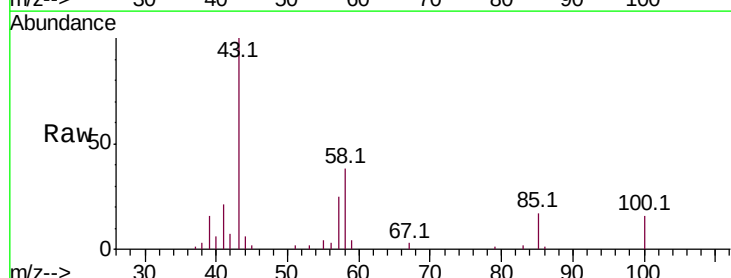
Delta R.T. 0.01 min

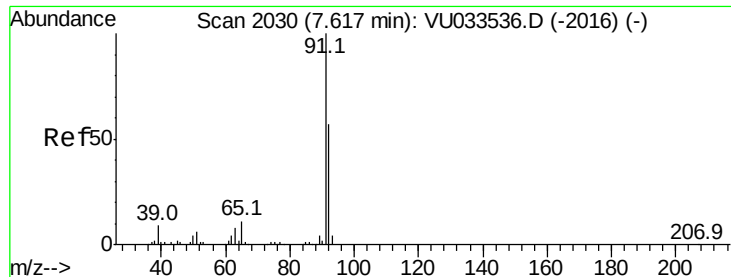
Lab File: VU033541.D

Acq: 01 Aug 2019 11:17

Tgt Ion: 43 Resp: 17495

Ion	Ratio	Lower	Upper
43	100		
58	39.4	32.8	49.2
100	16.6	12.9	19.3





#42

Toluene

Concen: 3.116 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033541.D

Acq: 01 Aug 2019 11:17

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 91 Resp: 28341

Ion Ratio Lower Upper

91 100

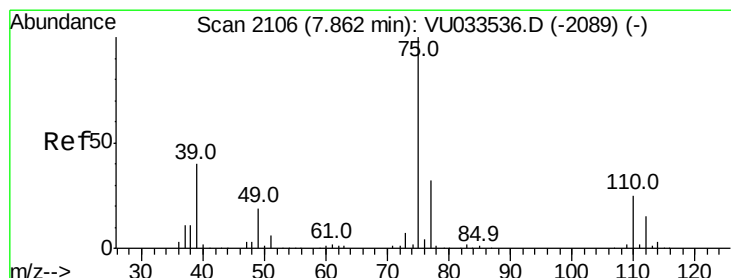
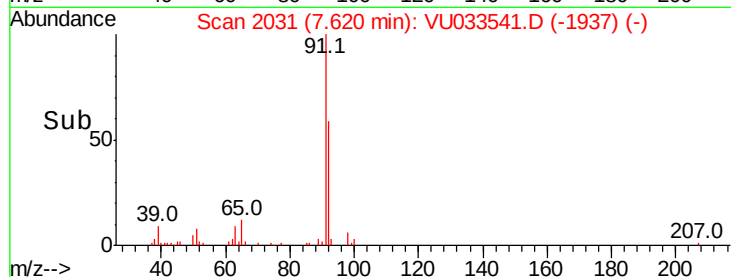
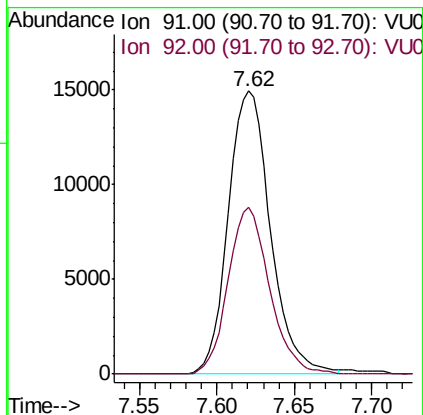
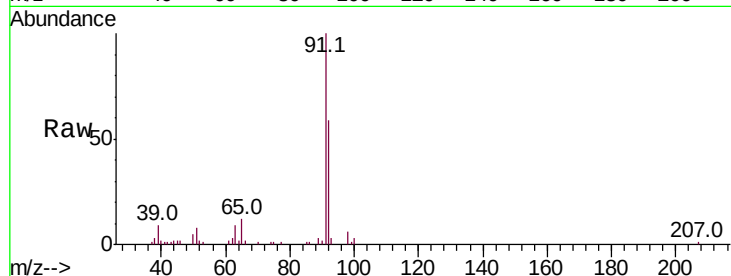
92 58.9 40.2 74.6

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#44

trans-1,3-Dichloropropene

Concen: 3.209 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033541.D

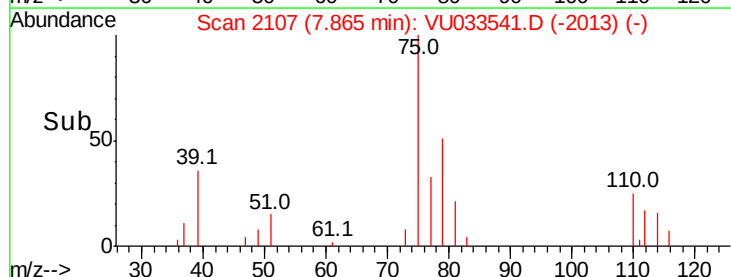
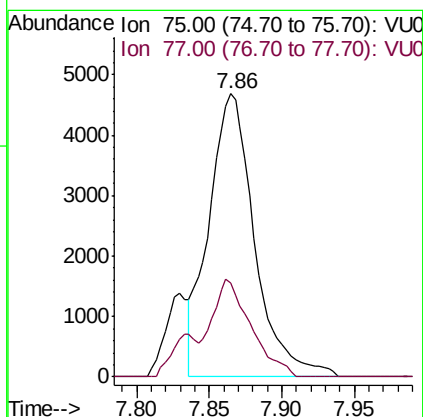
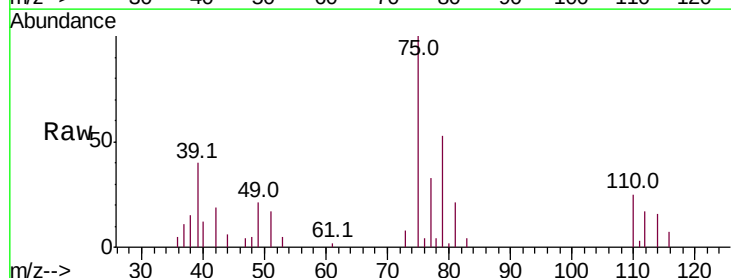
Acq: 01 Aug 2019 11:17

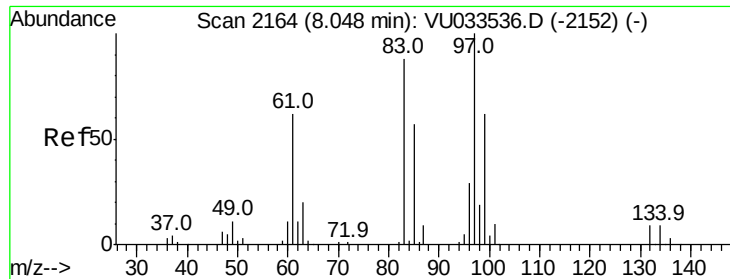
Tgt Ion: 75 Resp: 10249

Ion Ratio Lower Upper

75 100

77 33.0 22.7 42.1





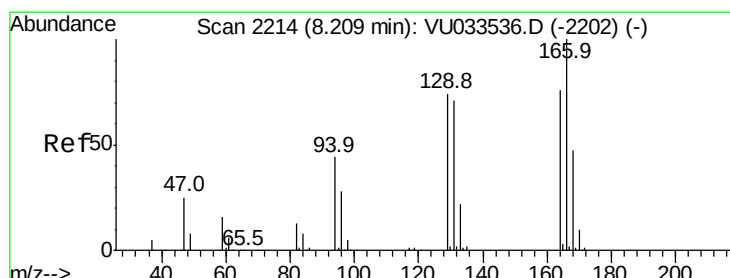
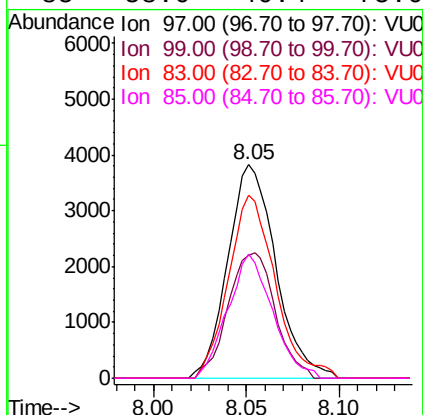
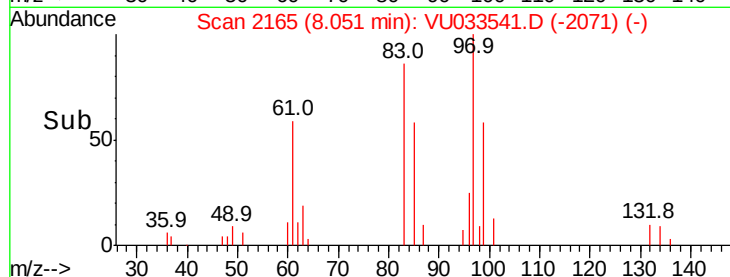
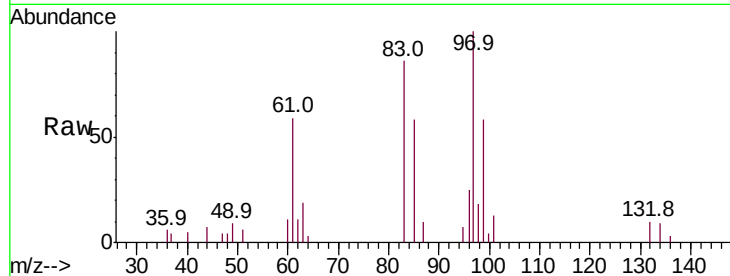
#45
1,1,2-Trichloroethane
Concen: 3.196 ug/L
RT: 8.05 min Scan# 2165
Delta R.T. 0.00 min
Lab File: VU033541.D
Acq: 01 Aug 2019 11:17

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion:	97	Resp:	6870
Ion	Ratio	Lower	Upper
97	100		
99	57.6	44.4	82.4
83	85.9	61.5	114.1
85	58.0	40.4	75.0

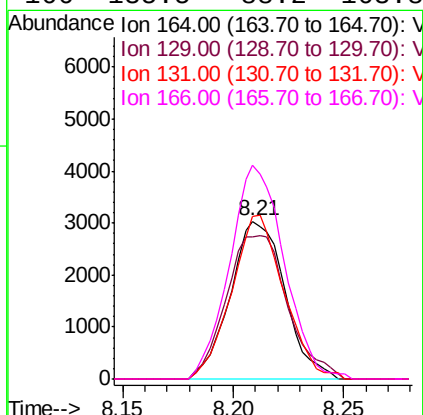
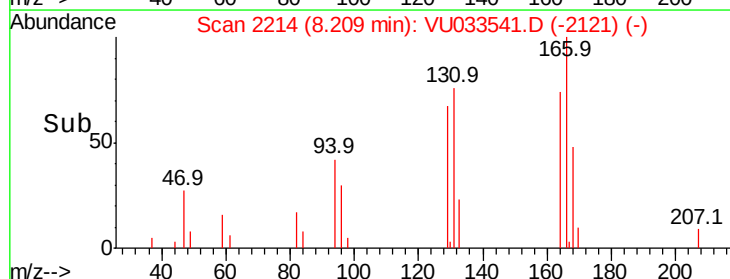
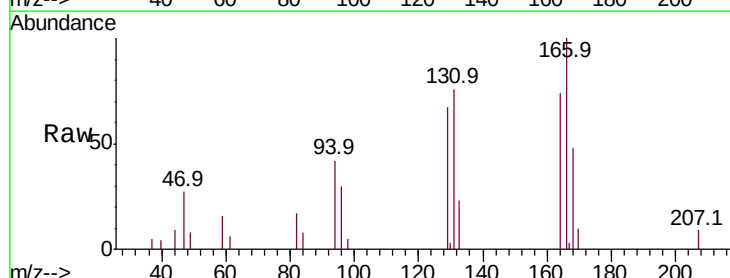
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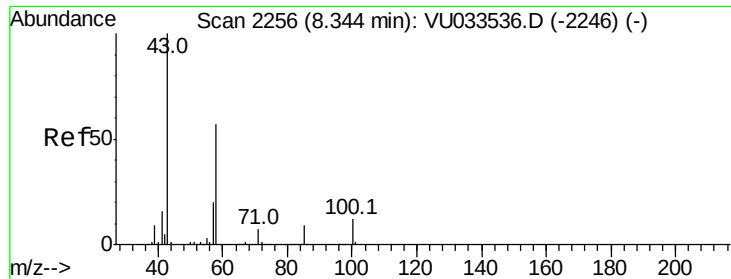
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#46
Tetrachloroethene
Concen: 2.863 ug/L
RT: 8.21 min Scan# 2214
Delta R.T. -0.00 min
Lab File: VU033541.D
Acq: 01 Aug 2019 11:17

Tgt Ion:	164	Resp:	5216
Ion	Ratio	Lower	Upper
164	100		
129	90.6	65.5	121.7
131	103.5	63.3	117.7
166	135.5	88.2	163.8





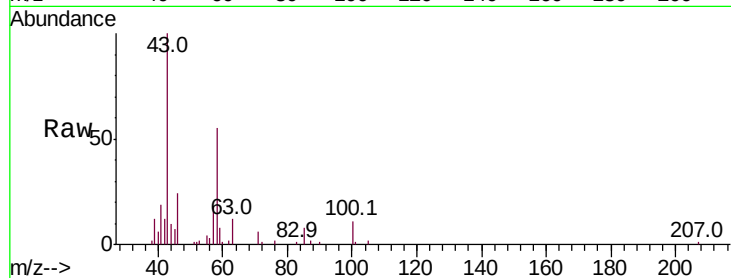
#48
2-Hexanone
Concen: 6.650 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033541.D
Acq: 01 Aug 2019 11:17

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
43	100		
58	56.9	45.8	68.6
57	21.0	15.8	23.6
100	11.8	9.4	14.2

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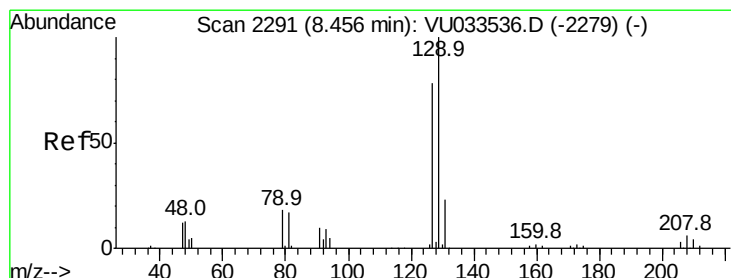
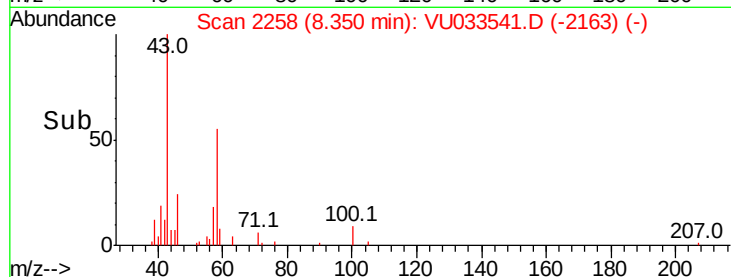
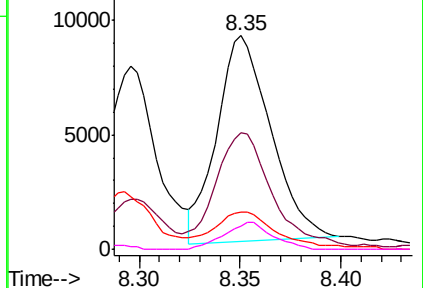
Abundance

Ion 43.00 (42.70 to 43.70): VU033536.D (-2246) (-)

Ion 58.00 (57.70 to 58.70): VU033536.D (-2246) (-)

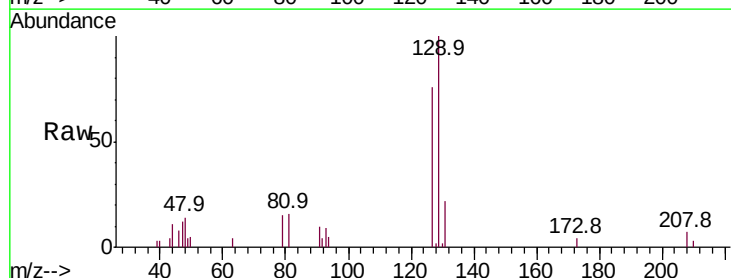
Ion 57.00 (56.70 to 57.70): VU033536.D (-2246) (-)

Ion 100.00 (99.70 to 100.70): VU033536.D (-2246) (-)



#49
Dibromochloromethane
Concen: 3.046 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033541.D
Acq: 01 Aug 2019 11:17

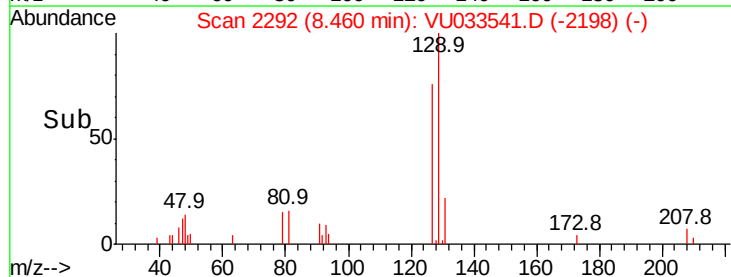
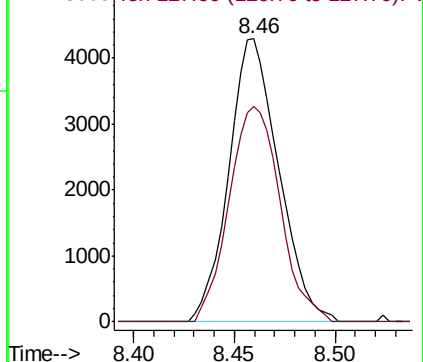
Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.3	53.8	99.8

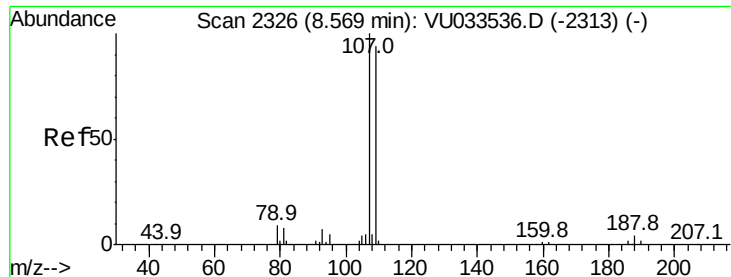


Abundance

Ion 129.00 (128.70 to 129.70): VU033536.D (-2279) (-)

Ion 127.00 (126.70 to 127.70): VU033536.D (-2279) (-)





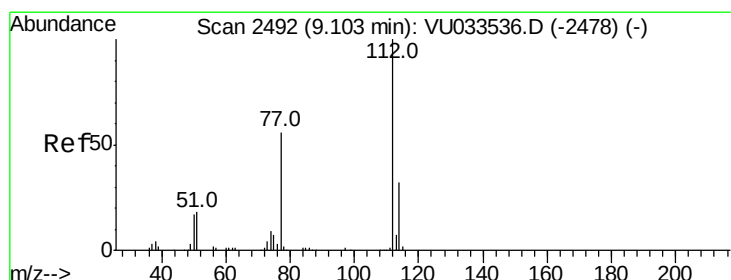
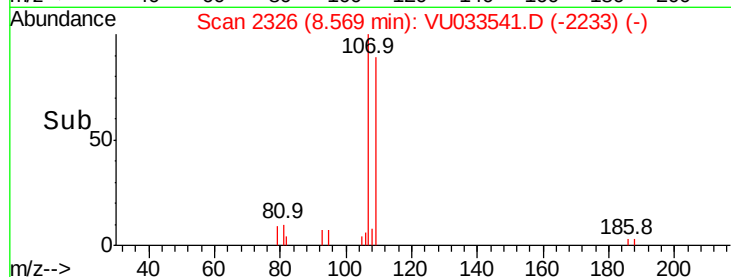
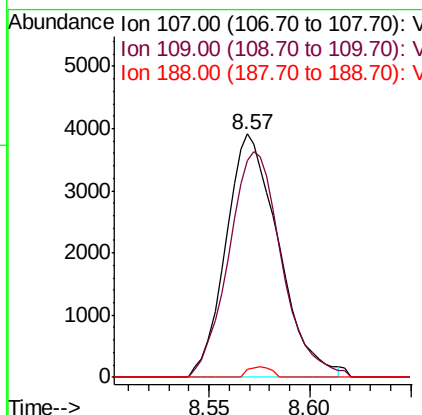
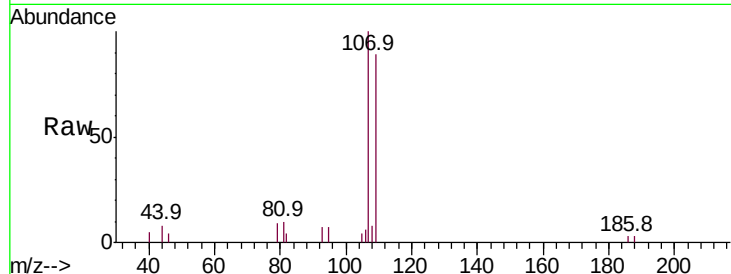
#50
 1,2-Dibromoethane
 Concen: 2.999 ug/L
 RT: 8.57 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU033541.D
 Acq: 01 Aug 2019 11:17

Instrument :
 MSVOA_U
 ClientSampleID :
 MDL04

Tot Ion	Ratio	Resp	Lower	Upper
107	100	7140		
109	88.9	66.8	124.0	
188	3.2	3.0	4.4	

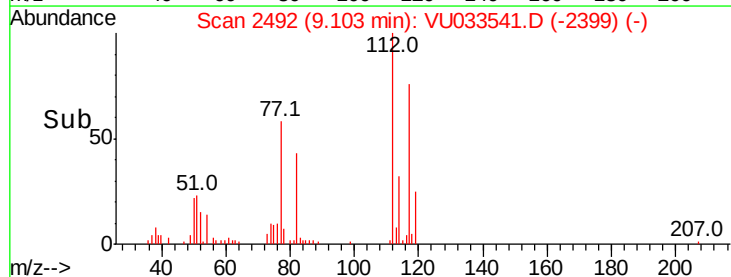
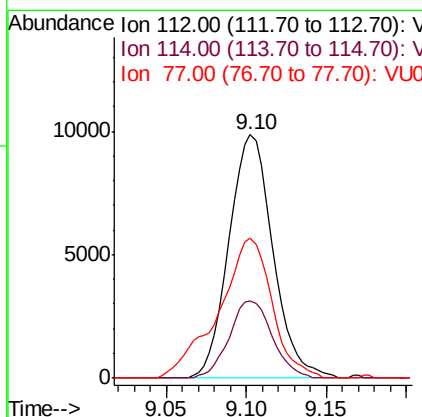
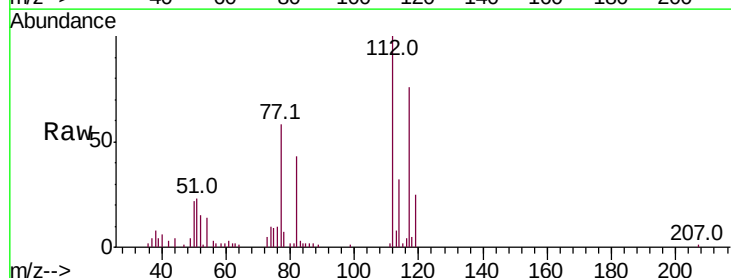
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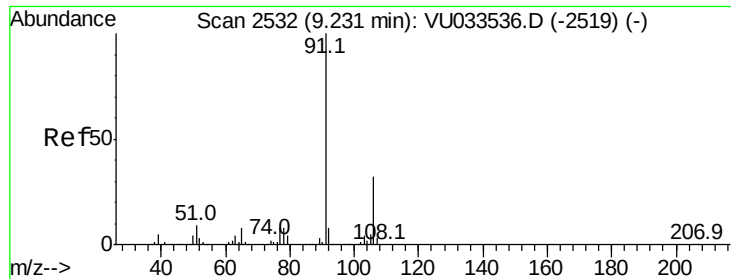
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 8/2/2019 8:29:23 AM



#51
 Chlorobenzene
 Concen: 3.106 ug/L
 RT: 9.10 min Scan# 2492
 Delta R.T. -0.00 min
 Lab File: VU033541.D
 Acq: 01 Aug 2019 11:17

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	18499		
114	31.6	22.3	41.5	
77	57.7	45.6	68.4	





#52

Ethylbenzene

Concen: 2.771 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033541.D

Acq: 01 Aug 2019 11:17

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 91 Resp: 27137

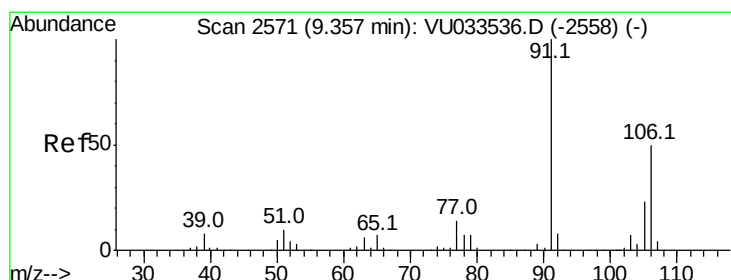
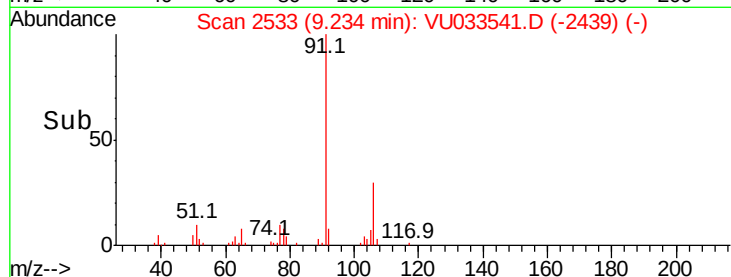
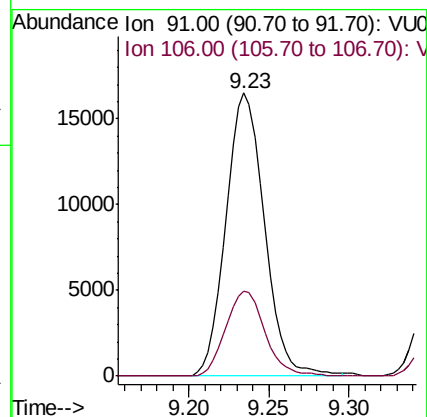
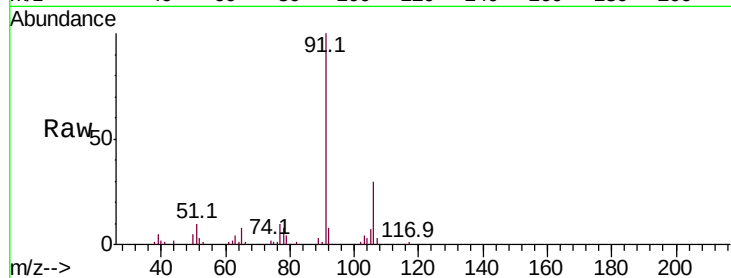
Ion Ratio Lower Upper

91 100

106 30.2 22.2 41.2

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#53

m,p-Xylene

Concen: 2.643 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033541.D

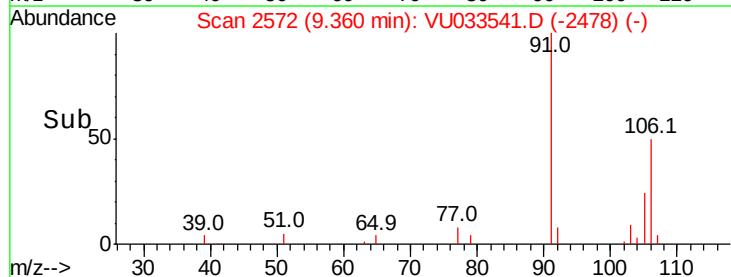
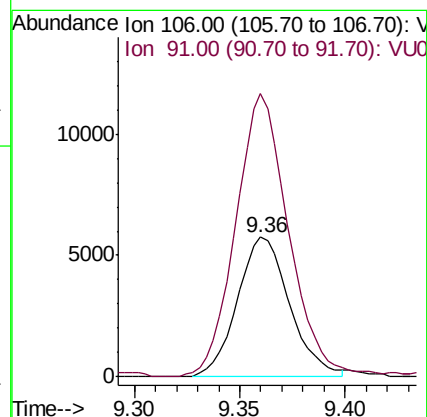
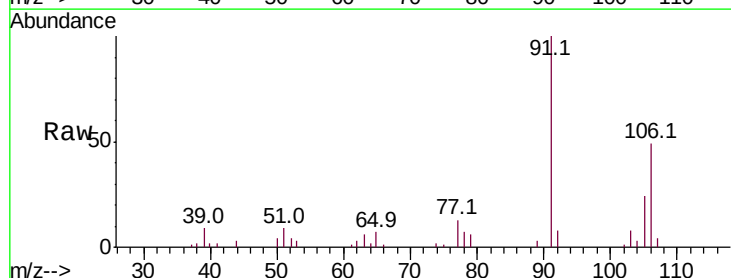
Acq: 01 Aug 2019 11:17

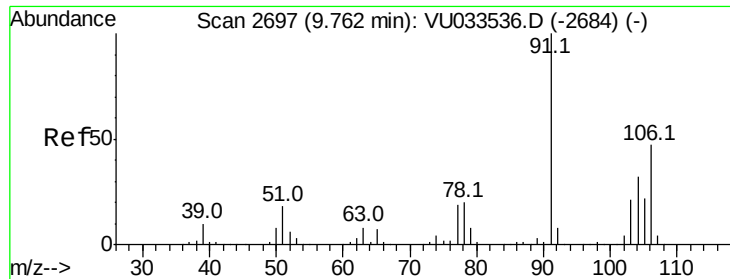
Tgt Ion: 106 Resp: 9937

Ion Ratio Lower Upper

106 100

91 202.6 143.0 265.6





#54

o-xylene

Concen: 2.656 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033541.D

Acq: 01 Aug 2019 11:17

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion:106 Resp: 9687

Ion Ratio Lower Upper

106 100

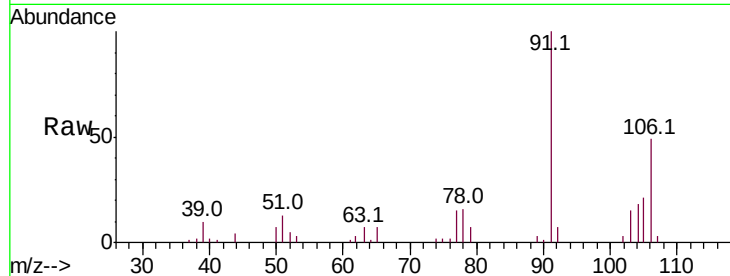
91 205.6 148.4 275.6

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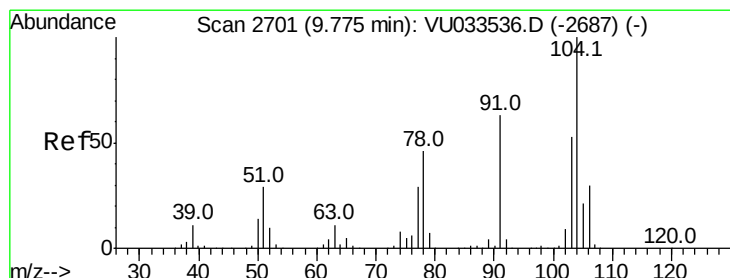
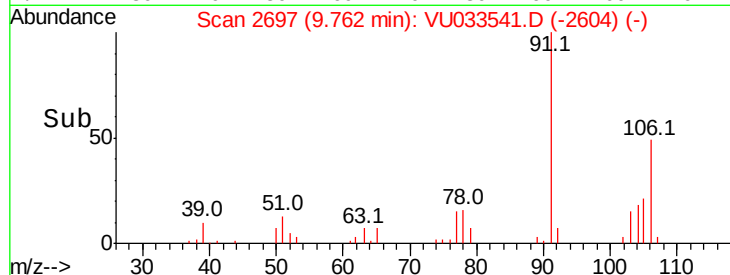
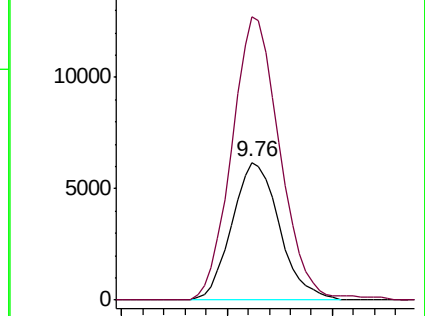
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.346 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033541.D

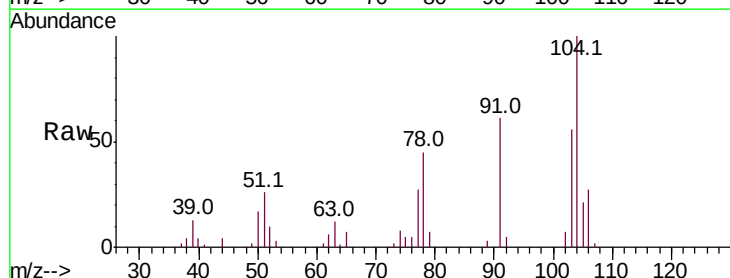
Acq: 01 Aug 2019 11:17

Tgt Ion:104 Resp: 14535

Ion Ratio Lower Upper

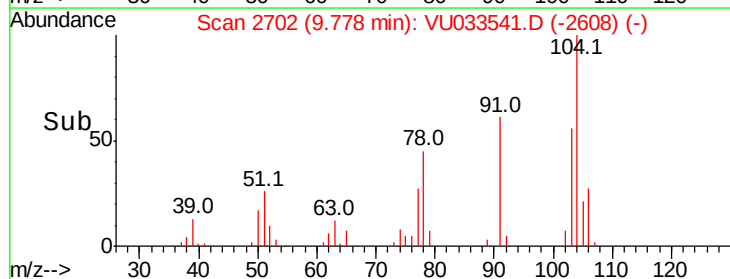
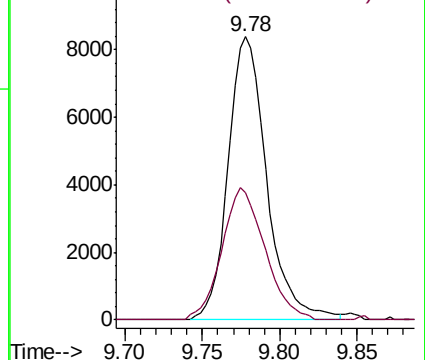
104 100

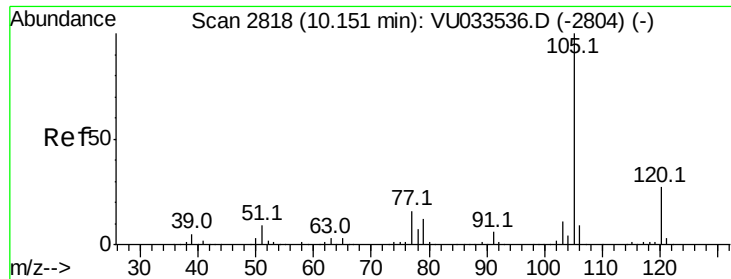
78 45.2 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





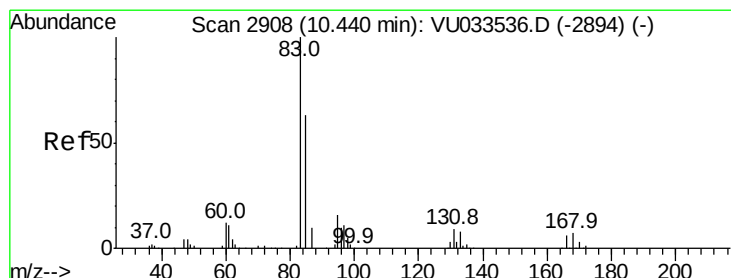
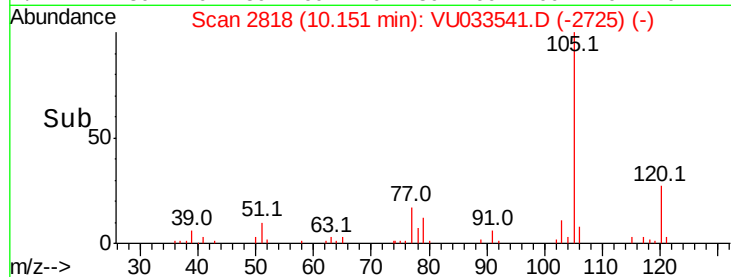
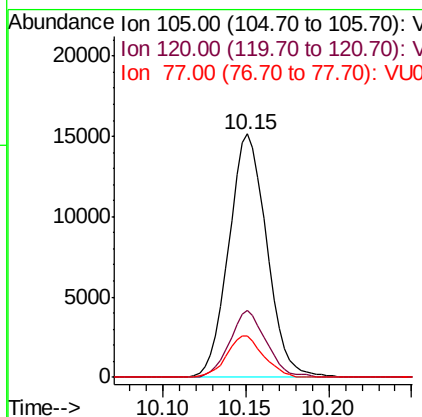
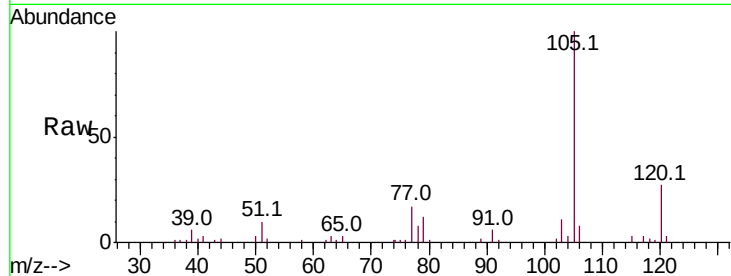
#56
Isopropylbenzene
Concen: 2.533 ug/L
RT: 10.15 min Scan# 2818
Delta R.T. -0.00 min
Lab File: VU033541.D
Acq: 01 Aug 2019 11:17

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.0	21.4	32.0
77	16.4	12.5	18.7

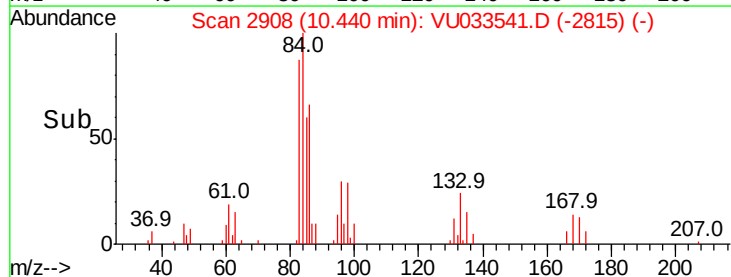
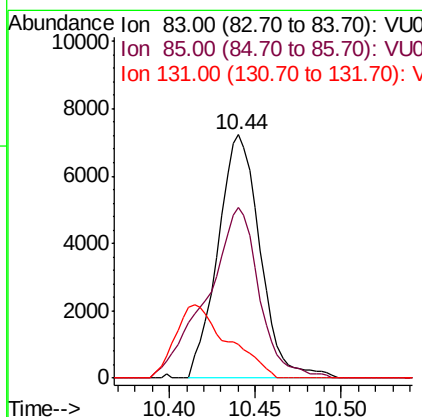
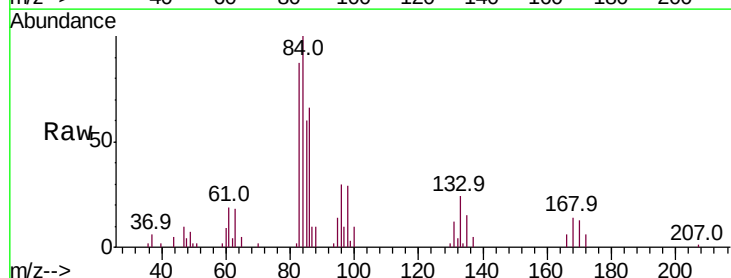
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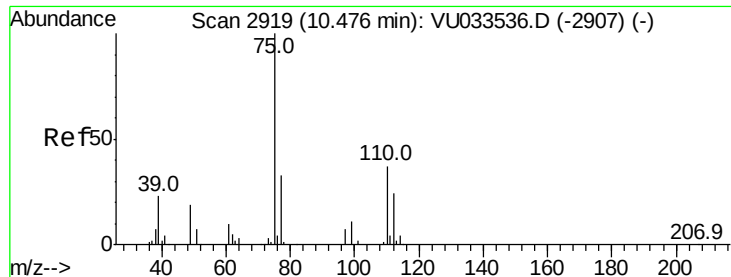
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#58
1,1,2,2-Tetrachloroethane
Concen: 3.204 ug/L
RT: 10.44 min Scan# 2908
Delta R.T. -0.00 min
Lab File: VU033541.D
Acq: 01 Aug 2019 11:17

Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.8	45.4	84.4
131	13.9	7.9	11.9#





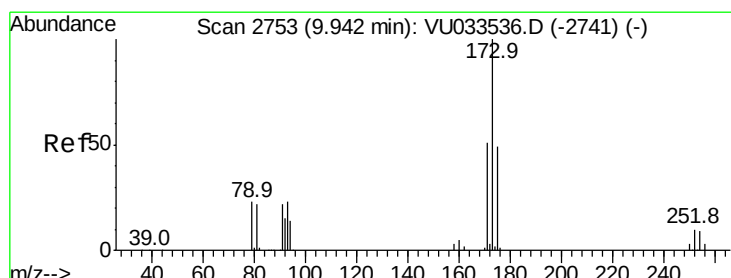
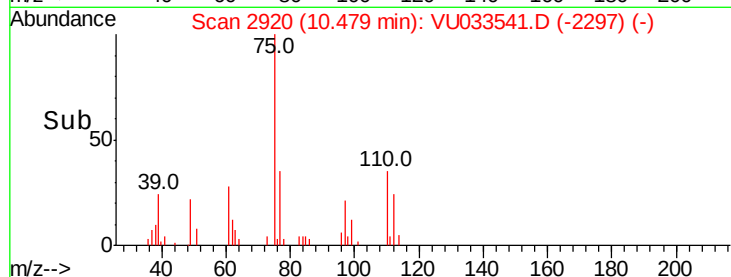
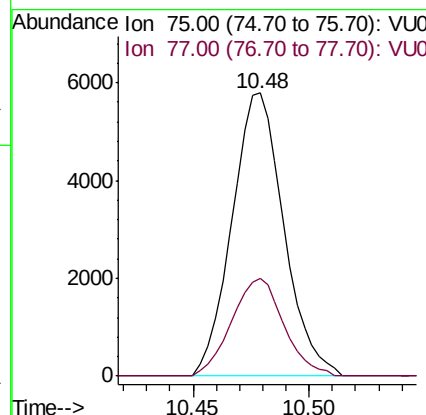
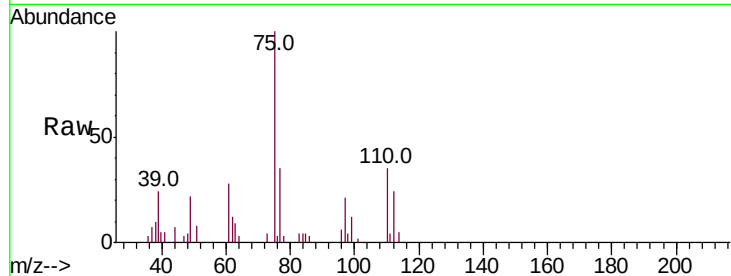
#59
 1,2,3-Trichloropropane
 Concen: 3.002 ug/L
 RT: 10.48 min Scan# 2920
 Delta R.T. 0.00 min
 Lab File: VU033541.D
 Acq: 01 Aug 2019 11:17

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion: 75 Resp: 8972
 Ion Ratio Lower Upper
 75 100
 77 34.9 25.8 38.6

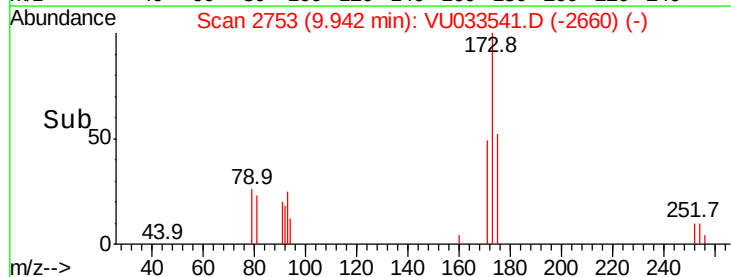
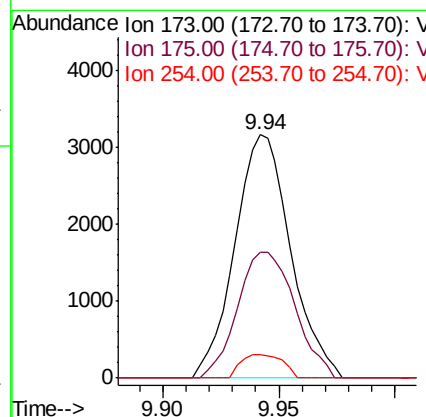
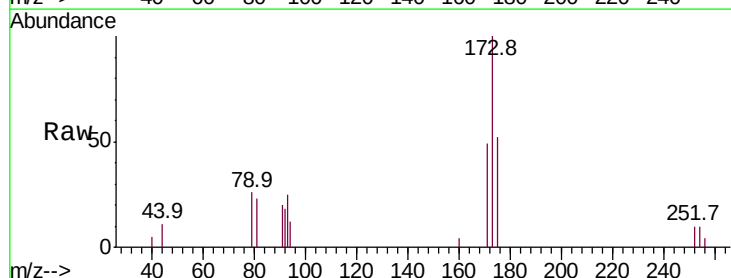
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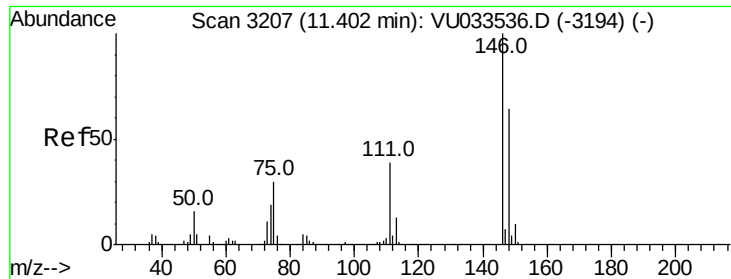
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#61
 Bromoform
 Concen: 3.063 ug/L
 RT: 9.94 min Scan# 2753
 Delta R.T. -0.00 min
 Lab File: VU033541.D
 Acq: 01 Aug 2019 11:17

Tgt Ion: 173 Resp: 5292
 Ion Ratio Lower Upper
 173 100
 175 52.9 38.7 58.1
 254 7.3 7.5 11.3#





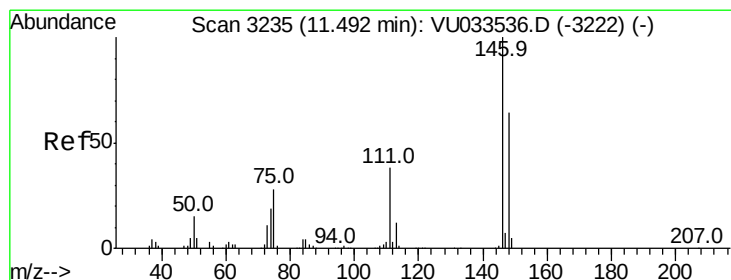
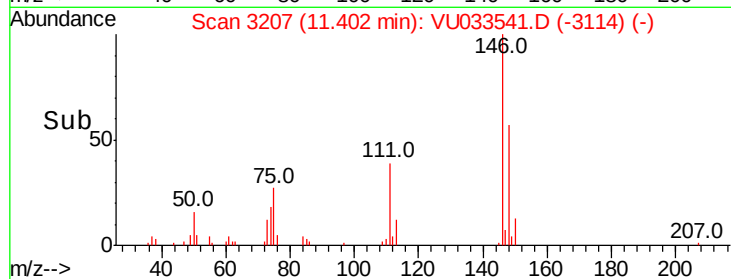
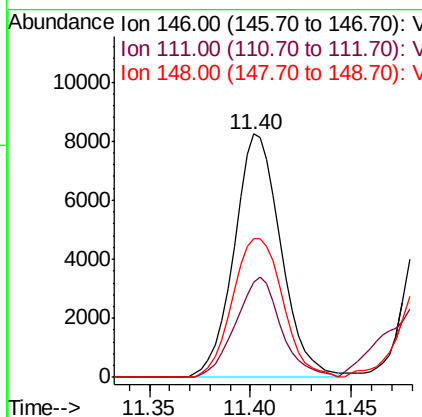
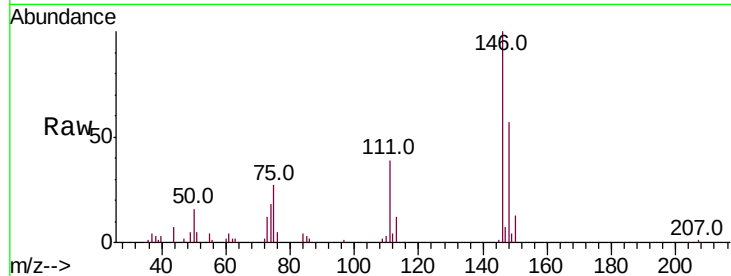
#62
 1,3-Dichlorobenzene
 Concen: 3.047 ug/L
 RT: 11.40 min Scan# 3207
 Delta R.T. -0.00 min
 Lab File: VU033541.D
 Acq: 01 Aug 2019 11:17

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	28.1	52.1
148	57.0	45.0	83.6

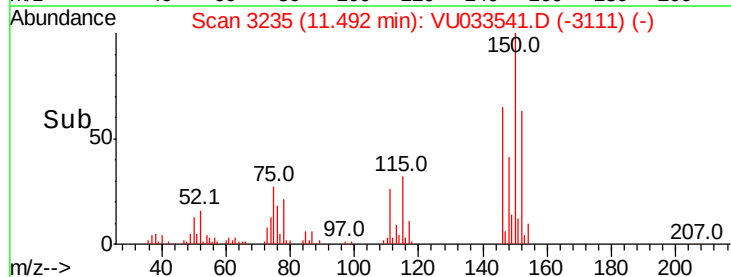
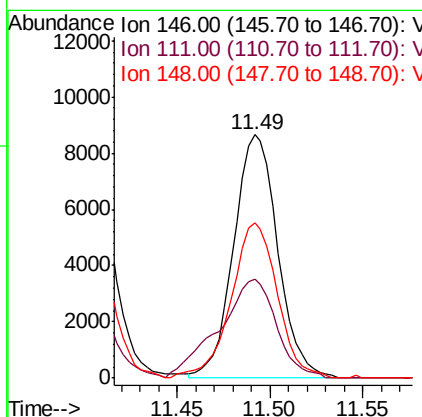
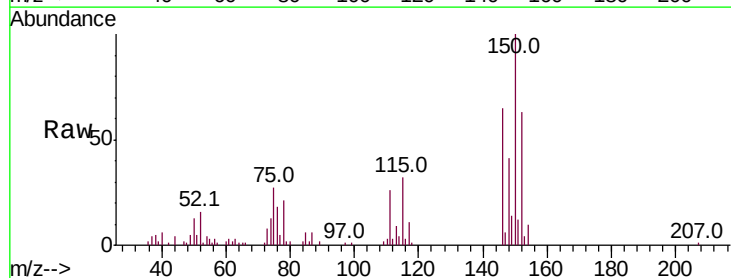
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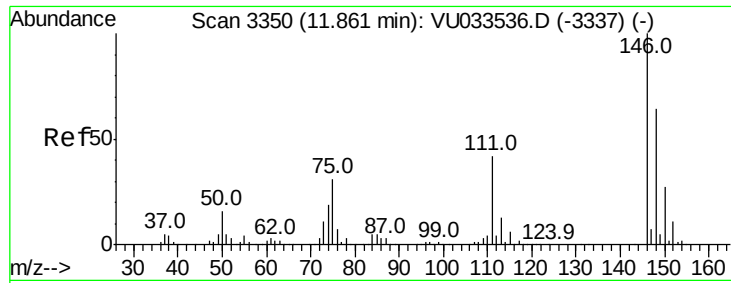
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#63
 1,4-Dichlorobenzene
 Concen: 3.146 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU033541.D
 Acq: 01 Aug 2019 11:17

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.7	27.2	50.4
148	63.7	44.5	82.7





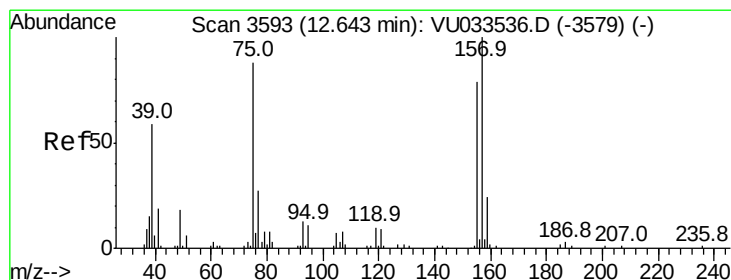
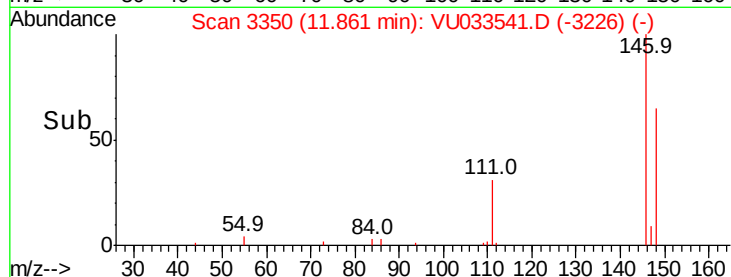
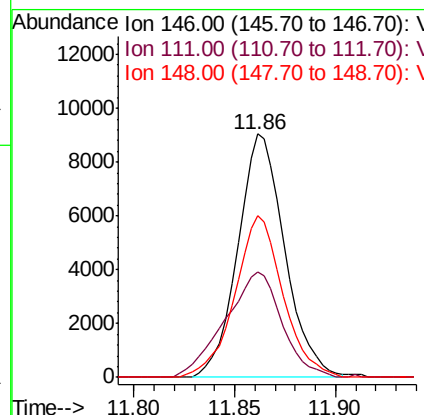
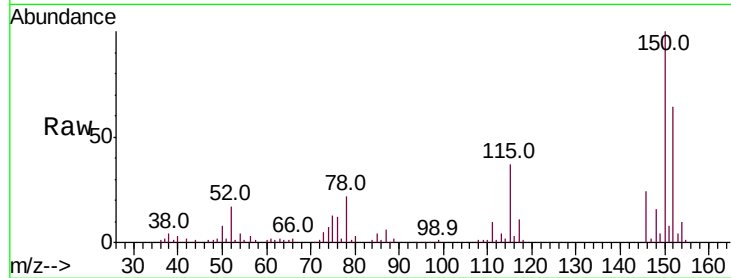
#65
 1,2-Dichlorobenzene
 Concen: 3.314 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. -0.00 min
 Lab File: VU033541.D
 Acq: 01 Aug 2019 11:17

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.3	31.7	47.5
148	66.4	50.3	75.5

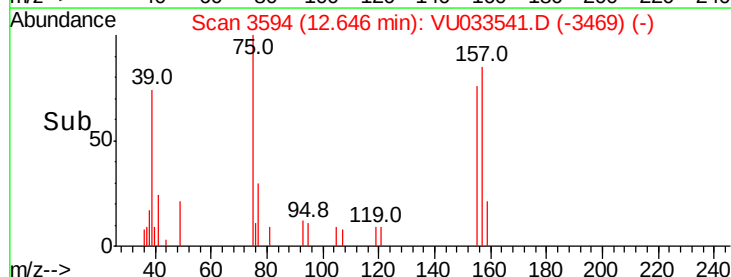
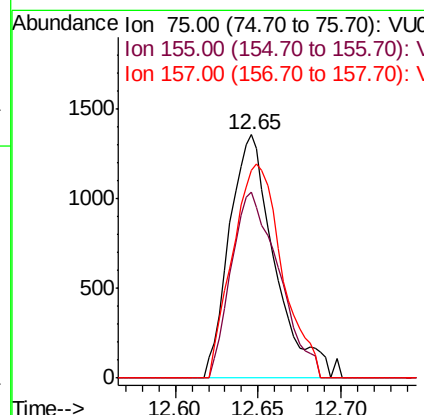
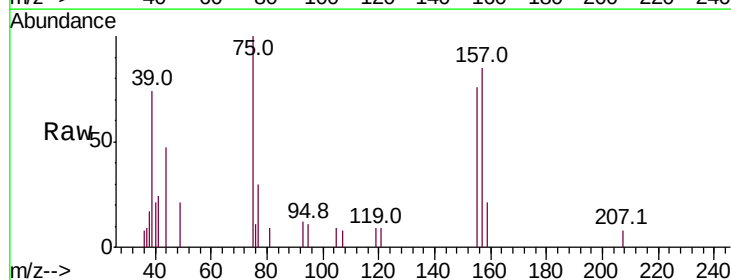
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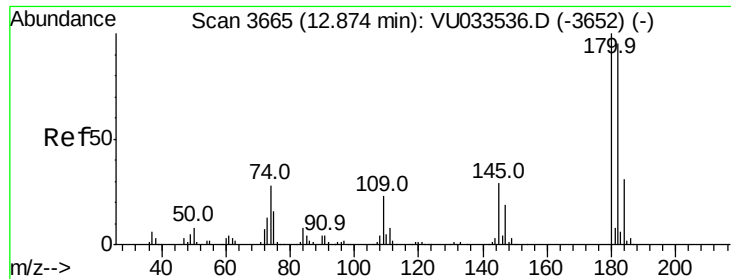
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#66
 1,2-Dibromo-3-chloropropane
 Concen: 3.158 ug/L
 RT: 12.65 min Scan# 3594
 Delta R.T. 0.00 min
 Lab File: VU033541.D
 Acq: 01 Aug 2019 11:17

Tgt Ion	Ratio	Lower	Upper
75	100		
155	76.5	69.4	104.0
157	85.3	91.8	137.8#





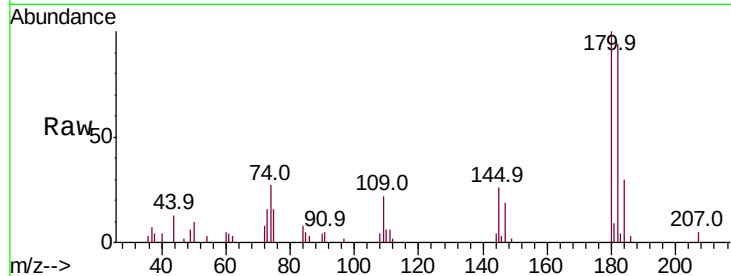
#67
 1,3,5-Trichlorobenzene
 Concen: 2.741 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. -0.00 min
 Lab File: VU033541.D
 Acq: 01 Aug 2019 11:17

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

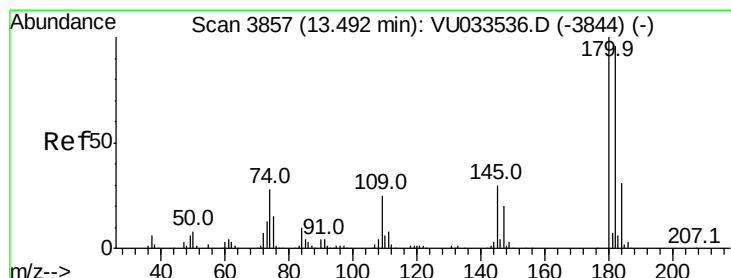
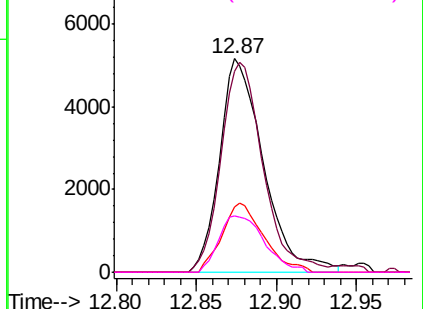
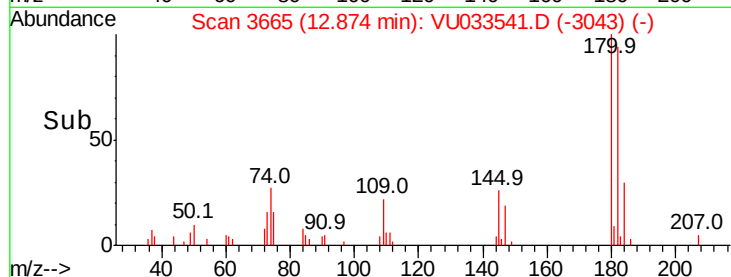
Tot Ion	180	Resp	9711
Ion Ratio	Lower	Upper	
180	100		
182	94.2	75.6	113.4
184	30.7	24.2	36.2
145	26.8	22.7	34.1

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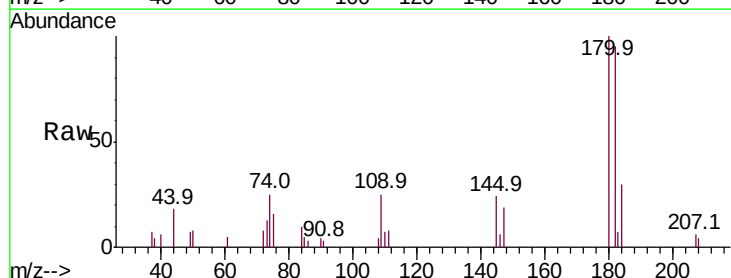


Abundance Ion 180.00 (179.70 to 180.70): V
 8000 Ion 182.00 (181.70 to 182.70): V
 6000 Ion 184.00 (183.70 to 184.70): V
 4000 Ion 145.00 (144.70 to 145.70): V

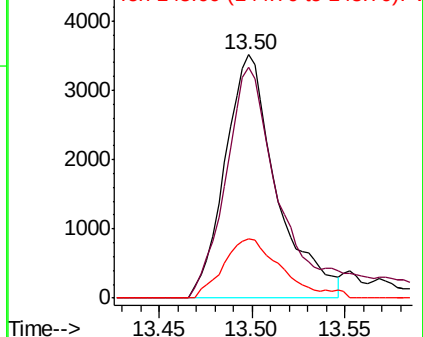
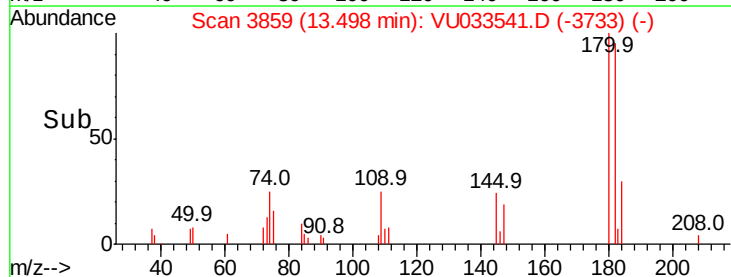


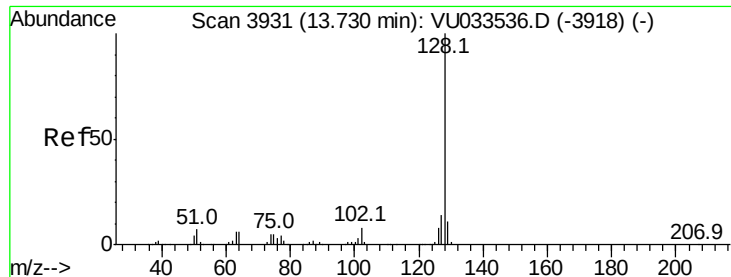
#68
 1,2,4-trichlorobenzene
 Concen: 2.241 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.01 min
 Lab File: VU033541.D
 Acq: 01 Aug 2019 11:17

Tgt Ion	180	Resp	6786
Ion Ratio	Lower	Upper	
180	100		
182	92.2	75.8	113.8
145	26.3	24.3	36.5



Abundance Ion 180.00 (179.70 to 180.70): V
 4000 Ion 182.00 (181.70 to 182.70): V
 3000 Ion 145.00 (144.70 to 145.70): V





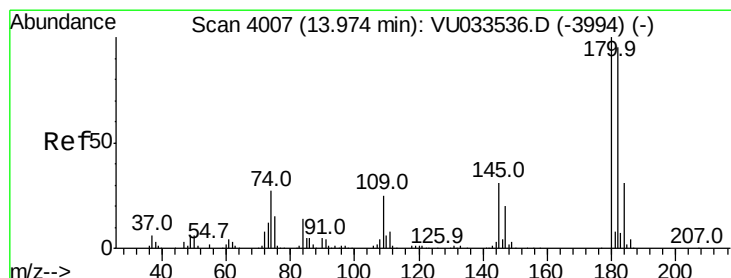
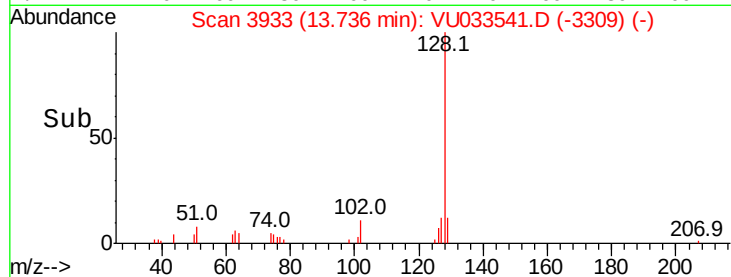
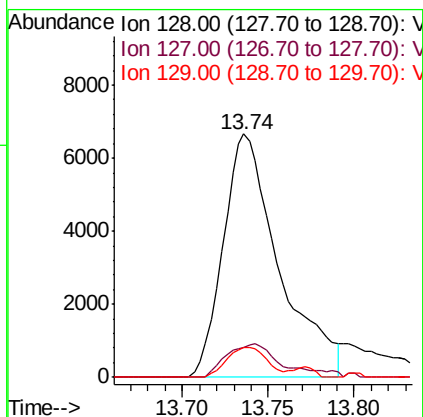
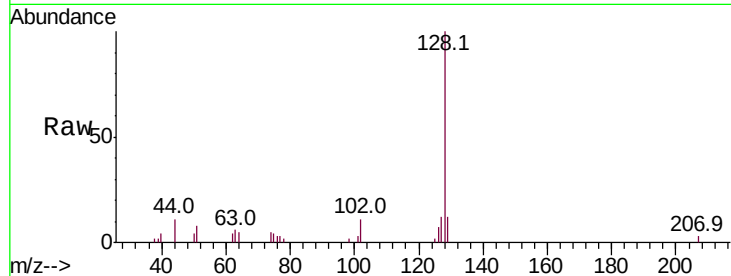
#69
Naphthalene
Concen: 1.738 ug/L
RT: 13.74 min Scan# 3933
Delta R.T. 0.01 min
Lab File: VU033541.D
Acq: 01 Aug 2019 11:17

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.4	10.8	16.2
129	8.9	8.7	13.1

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#70
1,2,3-Trichlorobenzene
Concen: 2.542 ug/L m
RT: 13.98 min Scan# 4009
Delta R.T. 0.01 min
Lab File: VU033541.D
Acq: 01 Aug 2019 11:17

Tgt Ion	Ratio	Lower	Upper
180	100		
182	75.8	75.5	113.3
145	23.5	24.4	36.6#

