

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122018\
 Data File : VL033029.D
 Acq On : 20 Dec 2018 17:25
 Operator : SY/AP
 Sample : J6444-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 YT-CBA-LTM5-04

Manual Integrations
 APPROVED

MMDadoda
 12/24/2018 8:26:20 AM

Quant Time: Dec 23 11:06:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 0
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1150842	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2752478	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2567843	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2047123	10.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	87418	0.569	ppbv	90
3) Chlorodifluoromethane	3.02	51	59977m	0.688	ppbv	
4) Chloromethane	3.17	50	30237	0.596	ppbv	92
9) Propene	3.06	41	969482m	28.131	ppbv	
10) Heptane	8.25	43	25373m	0.196	ppbv	
11) Trichlorofluoromethane	4.01	101	44409	0.307	ppbv	92
13) Ethanol	3.65	45	530946	44.745	ppbv	96
15) Acetone	3.90	43	1057106	10.702	ppbv	97
19) Isopropyl Alcohol	4.03	45	165180m	2.663	ppbv	
20) Methylene Chloride	4.42	84	216524	4.485	ppbv	98
26) Hexane	5.78	57	231293	2.147	ppbv #	50
27) Carbon Disulfide	4.62	76	21770	0.162	ppbv #	68
30) Cyclohexane	7.26	84	14927m	0.167	ppbv	
34) 2-Butanone	5.34	43	53693	0.448	ppbv	98
35) Carbon Tetrachloride	7.14	117	14225m	0.066	ppbv	
36) Benzene	7.01	78	156743	0.774	ppbv	99
44) 2,2,4-Trimethylpentane	7.99	57	113384	0.330	ppbv #	74
52) Tetrachloroethene	11.37	164	13688m	0.186	ppbv	
53) Toluene	9.96	91	19867460	92.530	ppbv	86
58) Ethyl Benzene	12.87	91	64677m	0.236	ppbv	
59) m/p-Xylene	13.13	91	210290m	0.847	ppbv	
60) o-Xylene	13.86	91	67929m	0.271	ppbv	
74) 1,2,4-Trimethylbenzene	16.93	105	103471m	0.335	ppbv	

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

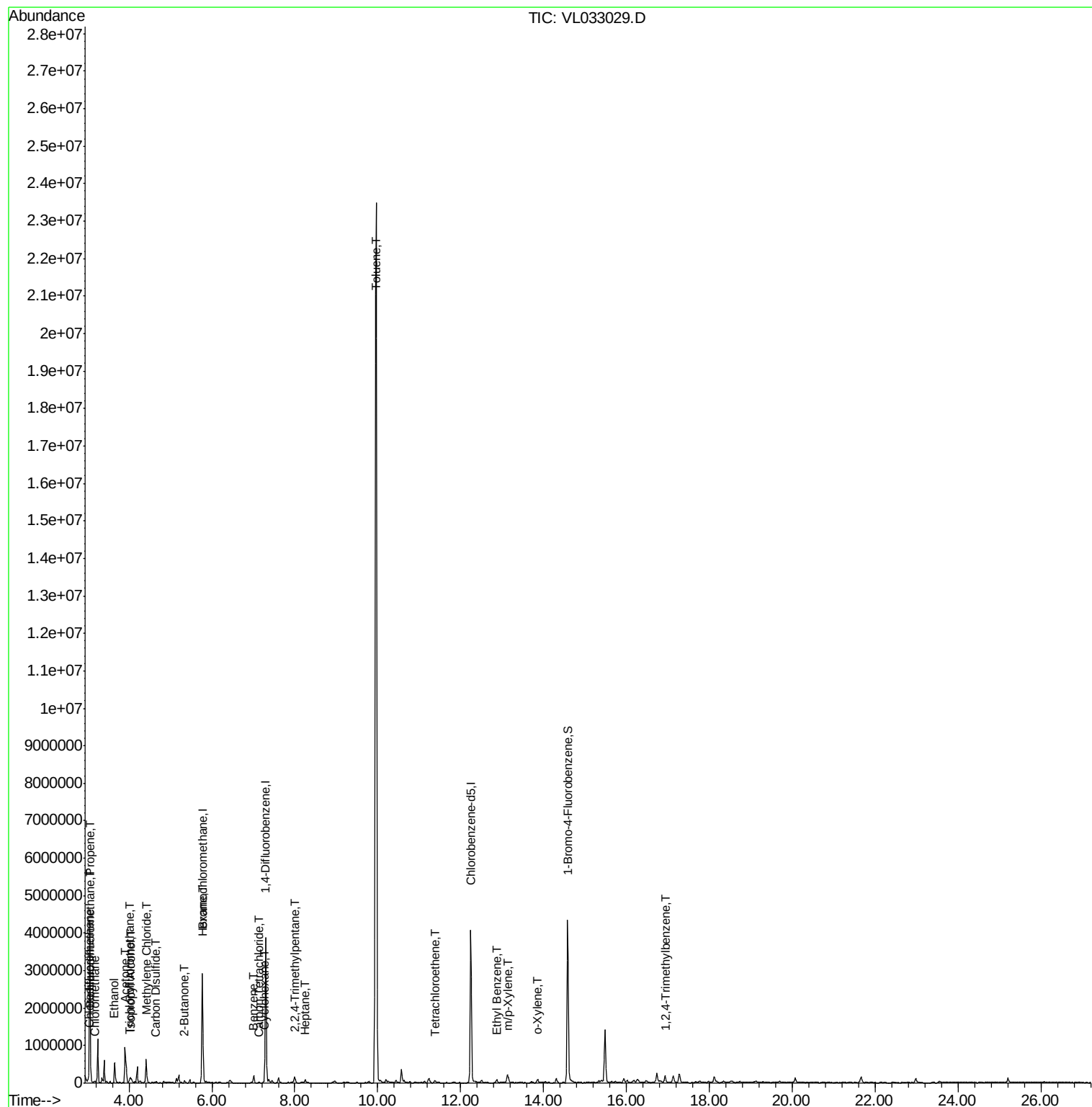
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL122018\
Data File : VL033029.D
Acq On : 20 Dec 2018 17:25
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Misc : 400ml/MSVOA L
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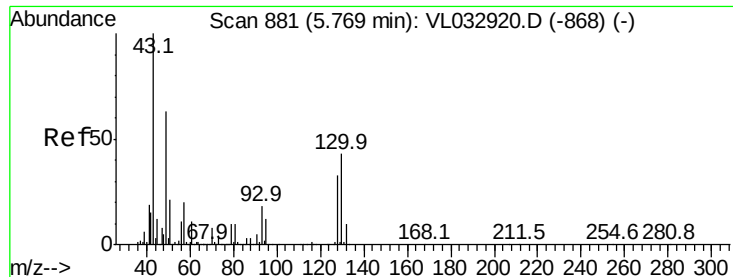
Instrument :
MSVOA_L
ClientSampleId :
YT-CBA-LTM5-04

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Quant Time: Dec 23 11:06:57 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec
QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration





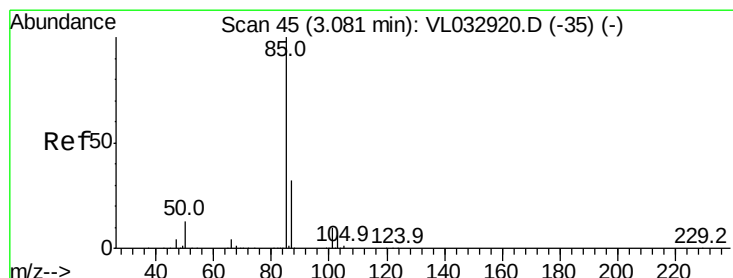
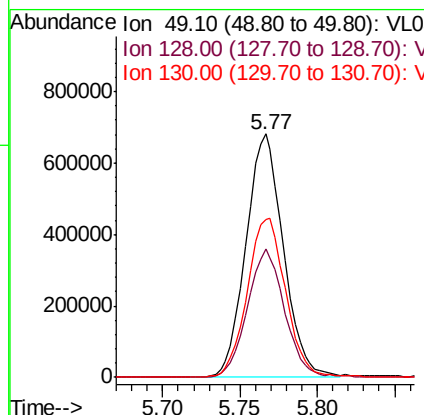
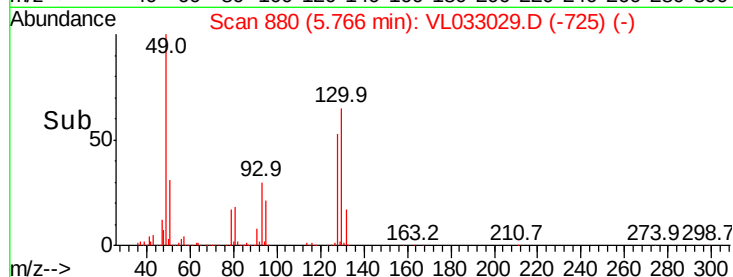
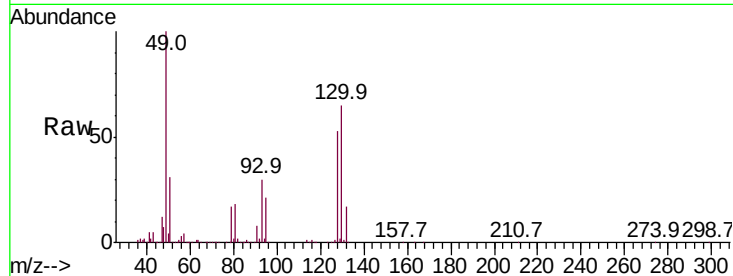
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033029.D
Acq: 20 Dec 2018 17:25

Instrument :
MSVOA_L
ClientSampleId :
YT-CBA-LTM5-04

Tot Ion: 49 Resp: 1150842
Ion Ratio Lower Upper
49 100
128 52.8 26.3 78.8
130 67.2 33.9 101.7

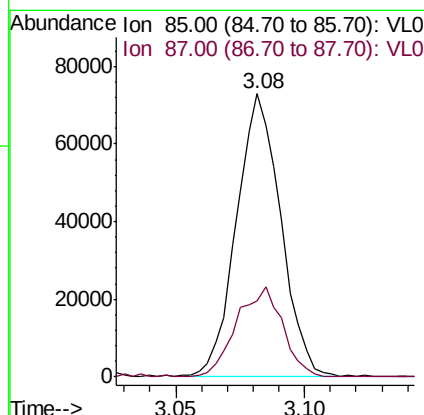
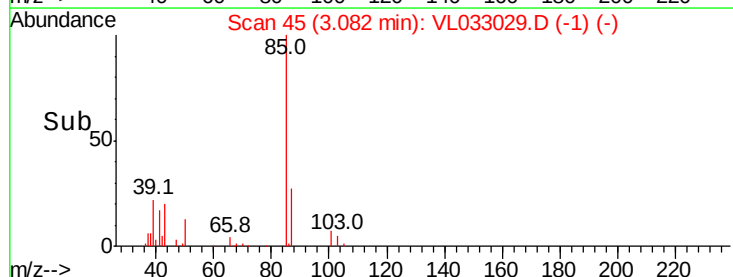
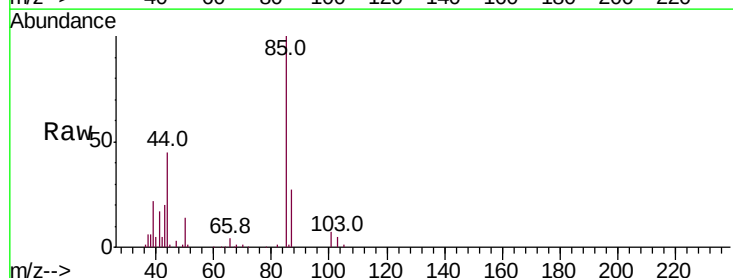
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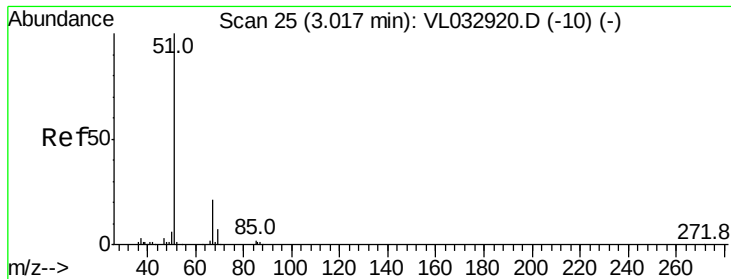
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#2
Dichlorodifluoromethane
Concen: 0.569 ppbv
RT: 3.08 min Scan# 45
Delta R.T. 0.00 min
Lab File: VL033029.D
Acq: 20 Dec 2018 17:25

Tgt Ion: 85 Resp: 87418
Ion Ratio Lower Upper
85 100
87 26.8 25.7 38.5





#3

Chlorodifluoromethane

Concen: 0.688 ppbv m

RT: 3.02 min Scan# 26

Delta R.T. 0.00 min

Lab File: VL033029.D

Acq: 20 Dec 2018 17:25

Tot Ion	51	Resp	59977
Ion	Ratio	Lower	Upper
51	100		
67	20.6	16.8	25.2

Instrument :

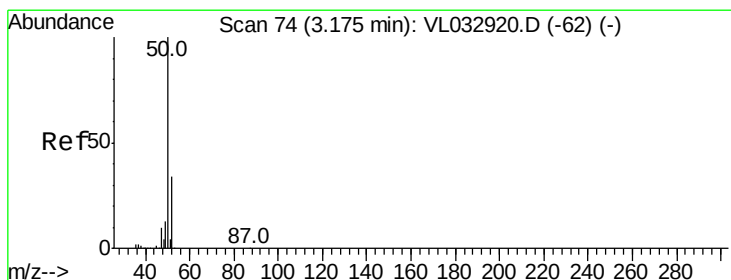
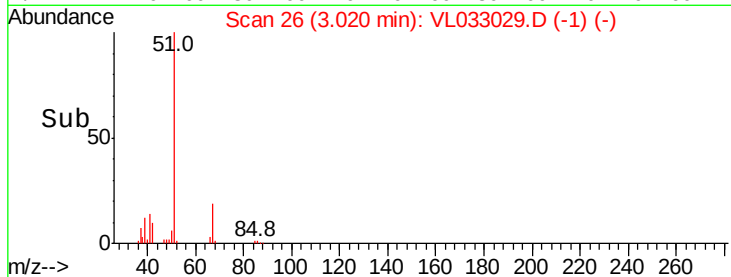
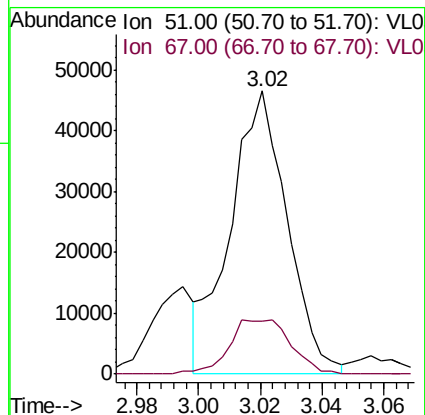
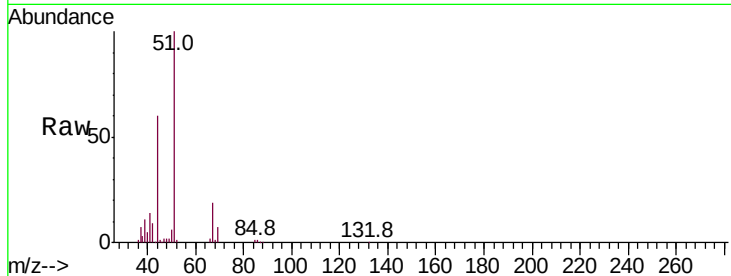
MSVOA_L

ClientSampleId :

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#4

Chloromethane

Concen: 0.596 ppbv

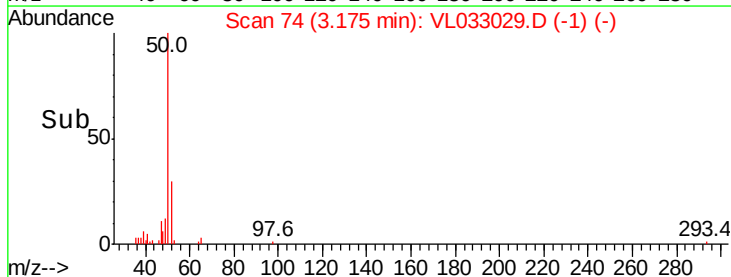
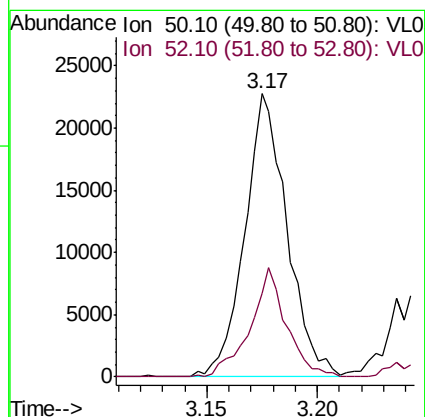
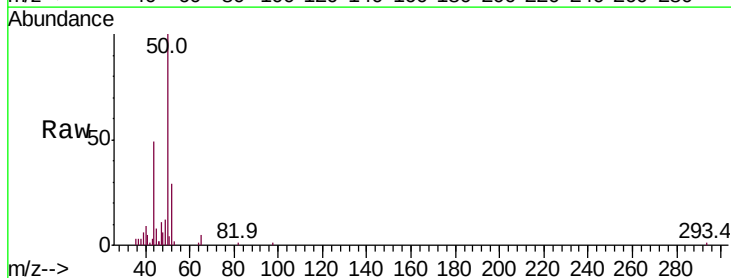
RT: 3.17 min Scan# 74

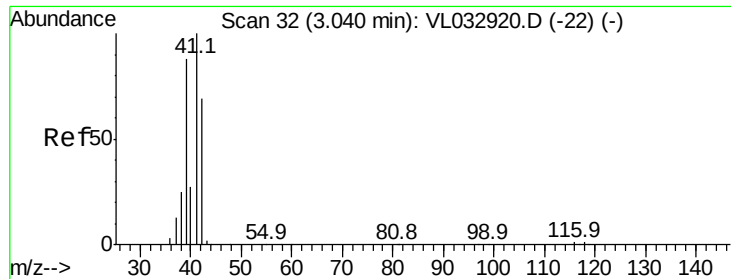
Delta R.T. 0.00 min

Lab File: VL033029.D

Acq: 20 Dec 2018 17:25

Tgt Ion	50	Resp	30237
Ion	Ratio	Lower	Upper
50	100		
52	29.4	27.3	40.9





#9

Propene

Concen: 28.131 ppbv m

RT: 3.06 min Scan# 37

Delta R.T. 0.02 min

Lab File: VL033029.D

Acq: 20 Dec 2018 17:25

Instrument :

MSVOA_L

ClientSampleId :

YT-CBA-LTM5-04

Tot Ion: 41 Resp: 969482

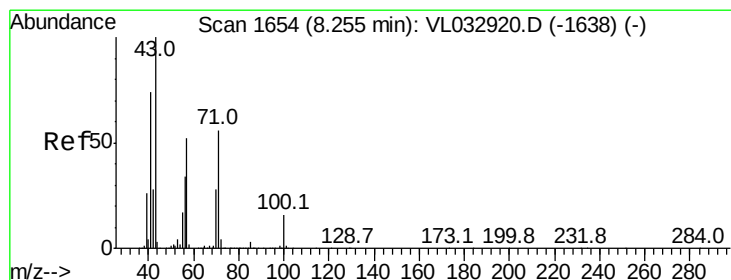
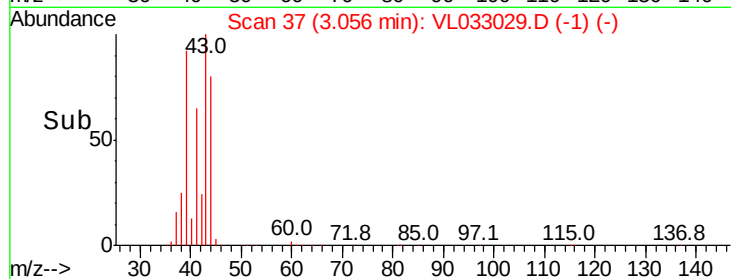
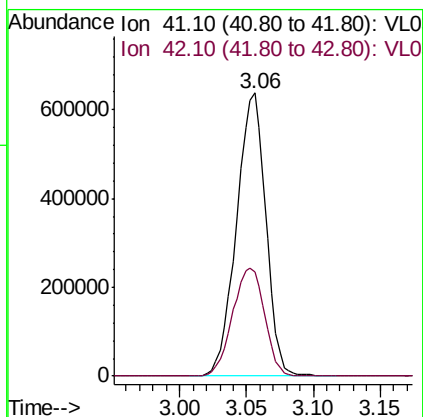
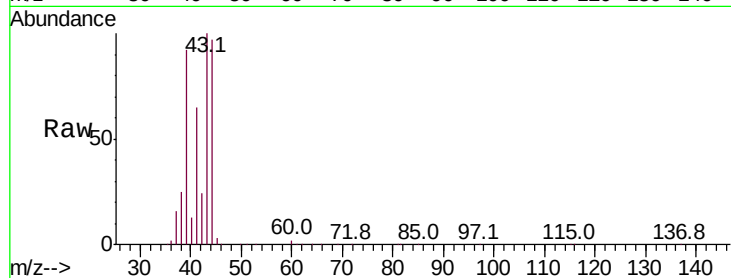
Ion Ratio Lower Upper

41 100

42 20.6 56.2 84.2#

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#10

Heptane

Concen: 0.196 ppbv m

RT: 8.25 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VL033029.D

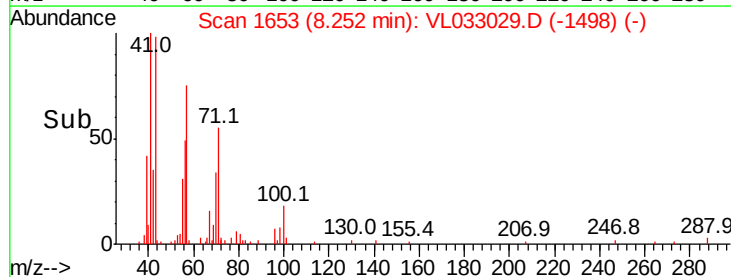
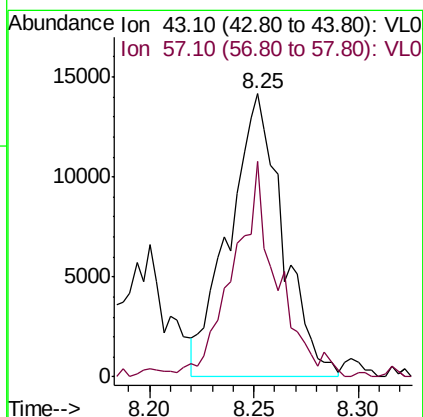
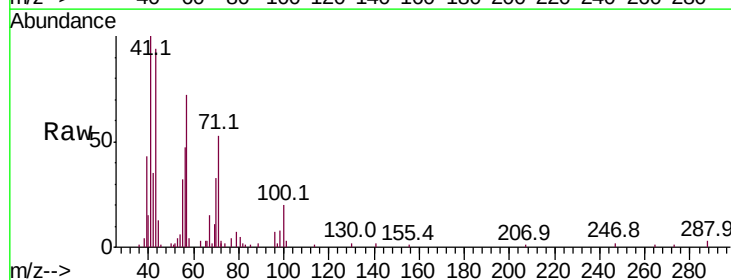
Acq: 20 Dec 2018 17:25

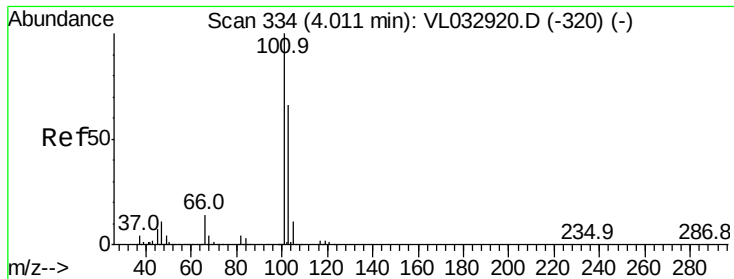
Tgt Ion: 43 Resp: 25373

Ion Ratio Lower Upper

43 100

57 63.6 41.8 62.6#





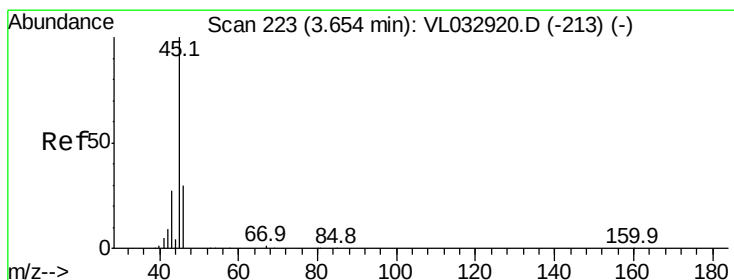
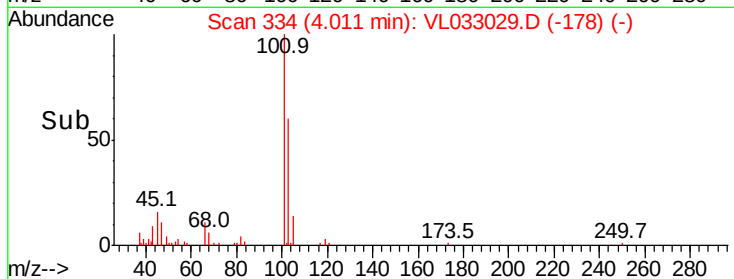
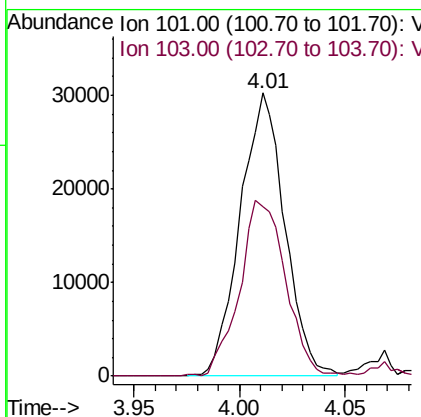
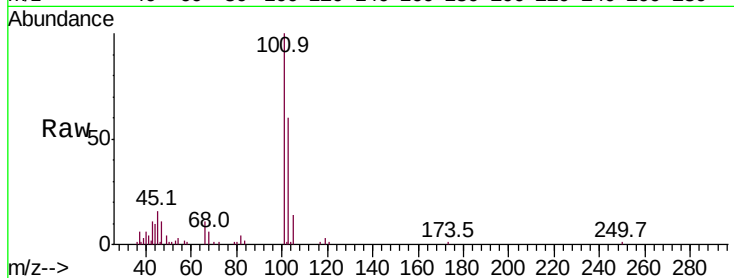
#11
 Trichlorofluoromethane
 Concen: 0.307 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. 0.00 min
 Lab File: VL033029.D
 Acq: 20 Dec 2018 17:25

Instrument :
 MSVOA_L
 ClientSampleId :
 YT-CBA-LTM5-04

Tot Ion	Ratio	Lower	Upper
101	100		
103	59.2	52.7	79.1

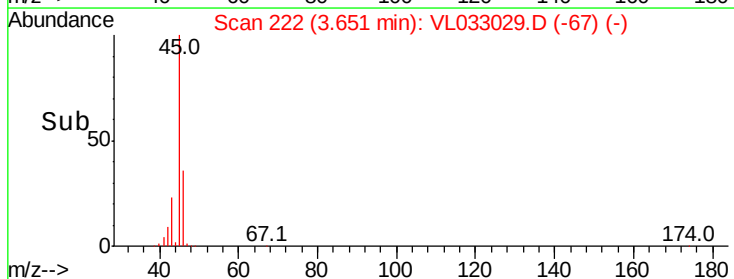
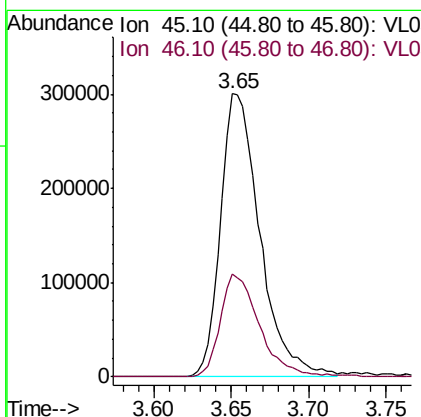
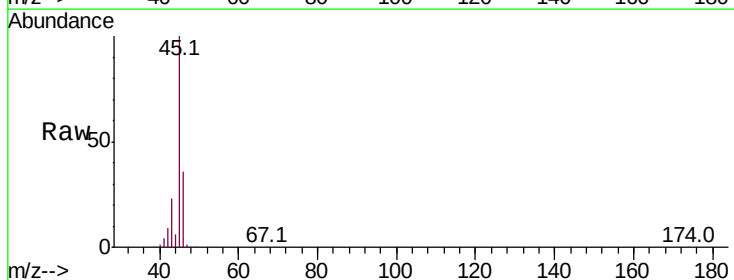
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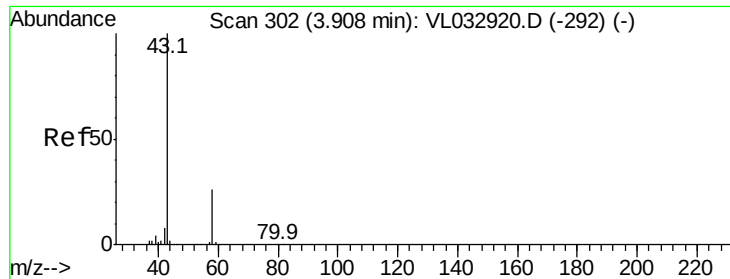
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#13
 Ethanol
 Concen: 44.745 ppbv
 RT: 3.65 min Scan# 222
 Delta R.T. -0.00 min
 Lab File: VL033029.D
 Acq: 20 Dec 2018 17:25

Tgt Ion	Ratio	Lower	Upper
45	100		
46	36.8	13.8	55.4





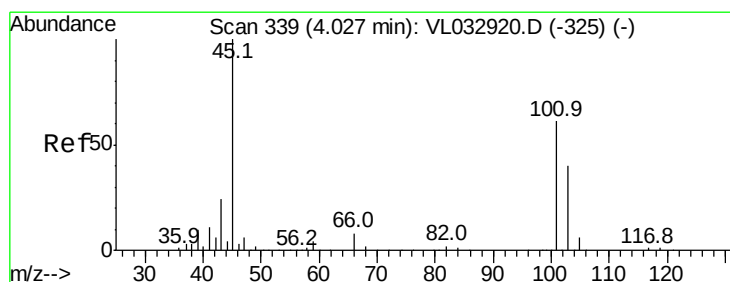
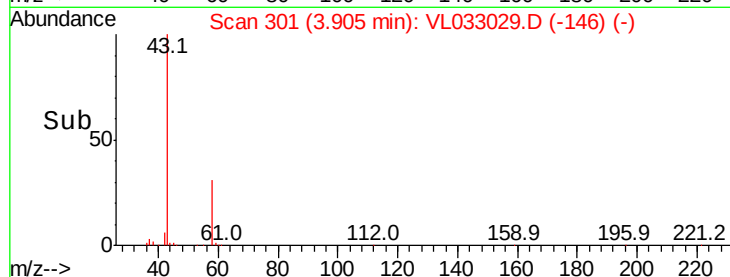
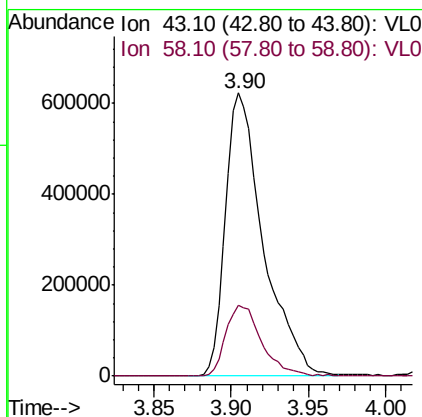
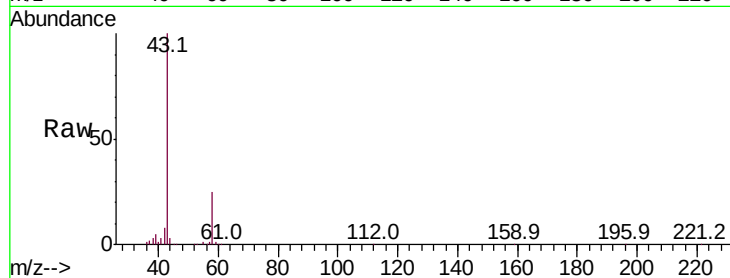
#15
Acetone
Concen: 10.702 ppbv
RT: 3.90 min Scan# 301
Delta R.T. -0.00 min
Lab File: VL033029.D
Acq: 20 Dec 2018 17:25

Instrument :
MSVOA_L
ClientSampleId :
YT-CBA-LTM5-04

Tot Ion: 43 Resp: 1057106
Ion Ratio Lower Upper
43 100
58 24.0 20.6 30.8

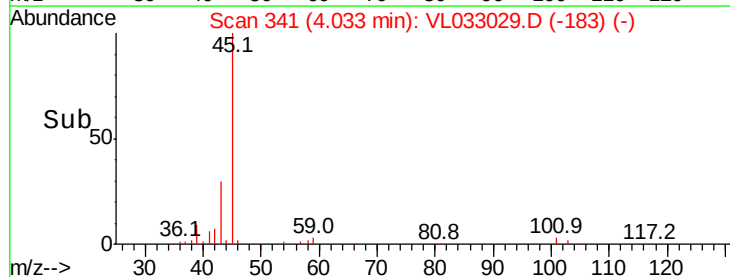
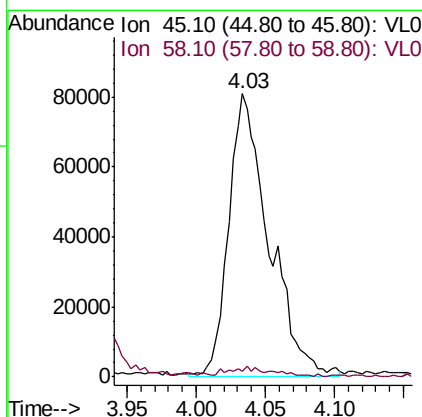
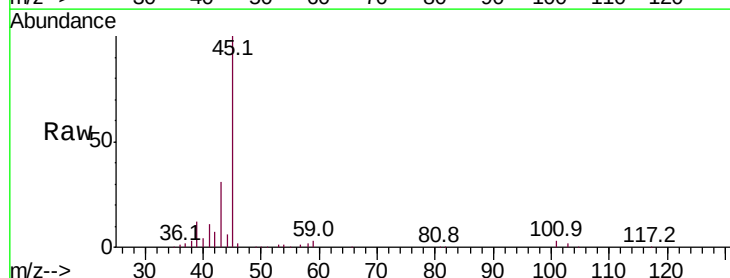
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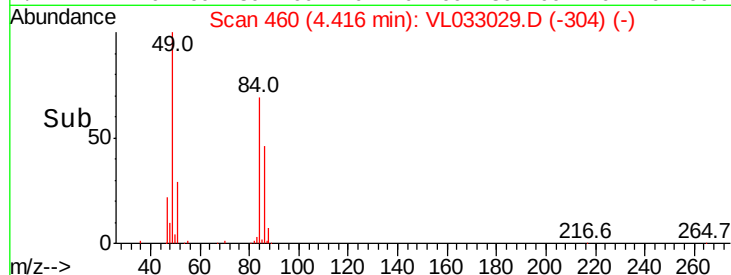
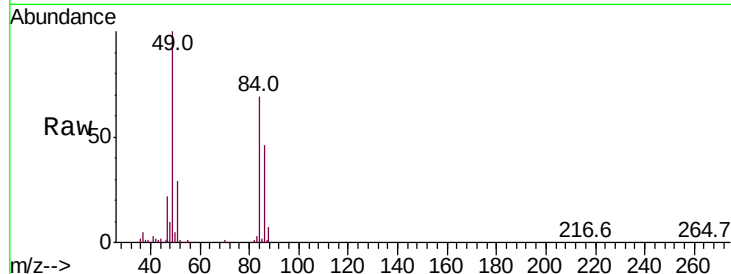
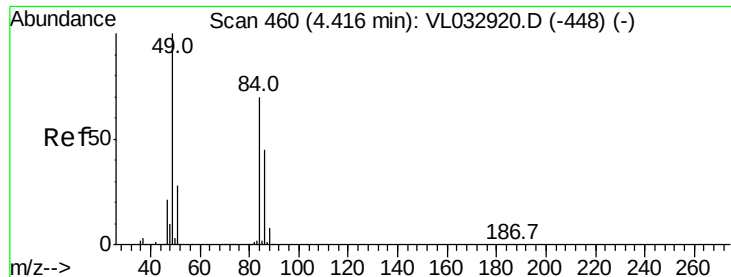
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#19
Isopropyl Alcohol
Concen: 2.663 ppbv m
RT: 4.03 min Scan# 341
Delta R.T. 0.01 min
Lab File: VL033029.D
Acq: 20 Dec 2018 17:25

Tgt Ion: 45 Resp: 165180
Ion Ratio Lower Upper
45 100
58 0.0 1.4 2.2#





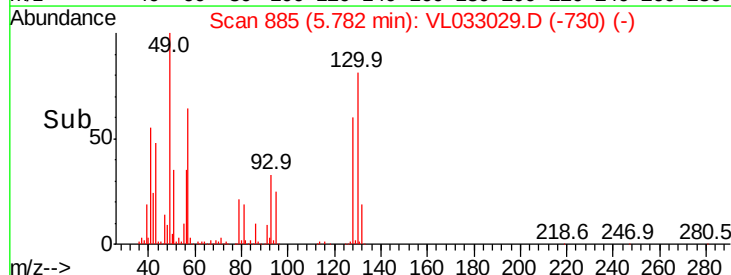
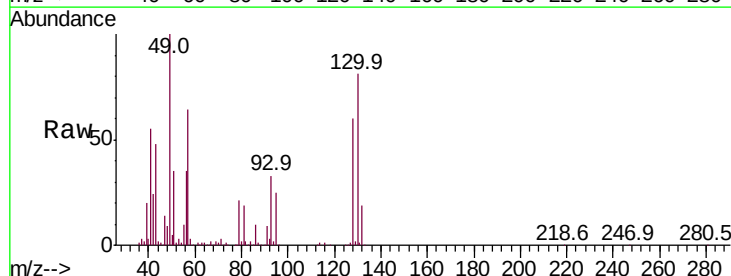
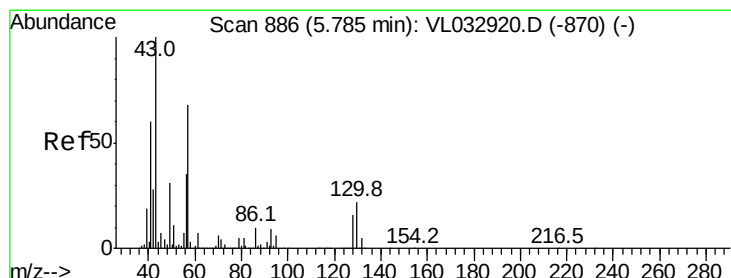
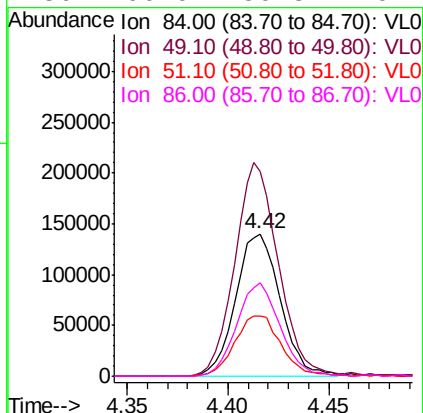
#20
Methylene Chloride
Concen: 4.485 ppbv
RT: 4.42 min Scan# 460
Delta R.T. 0.00 min
Lab File: VL033029.D
Acq: 20 Dec 2018 17:25

Tot Ion	84	Resp	216524
Ion Ratio	Lower	Upper	
84	100		
49	143.9	113.8	170.8
51	42.2	31.8	47.8
86	66.0	50.8	76.2

Instrument :
MSVOA_L
ClientSampleId :
YT-CBA-LTM5-04

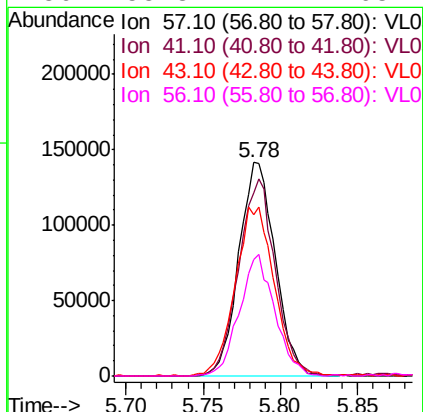
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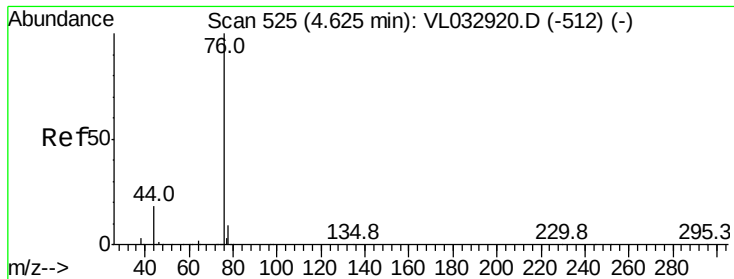
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#26
Hexane
Concen: 2.147 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033029.D
Acq: 20 Dec 2018 17:25

Tgt Ion	57	Resp	231293
Ion Ratio	Lower	Upper	
57	100		
41	93.0	72.2	108.2
43	85.8	171.9	257.9#
56	55.3	42.2	63.2





#27

Carbon Disulfide

Concen: 0.162 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL033029.D

Acq: 20 Dec 2018 17:25

Instrument :

MSVOA_L

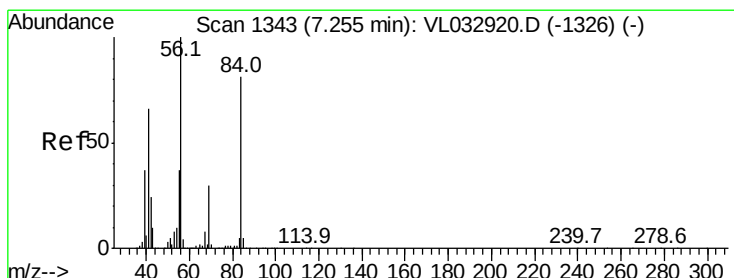
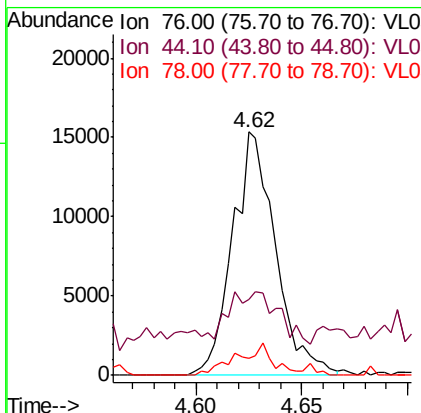
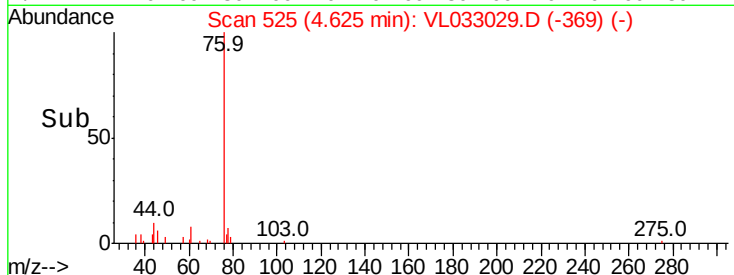
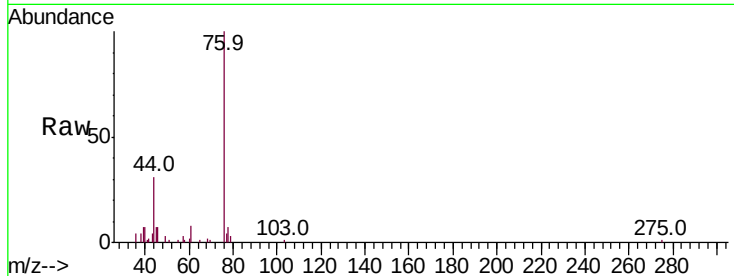
ClientSampleId :

YT-CBA-LTM5-04

Tot Ion:	76	Resp:	21770
Ion Ratio	Lower	Upper	
76	100		
44	37.8	14.7	22.1#
78	12.2	7.4	11.2#

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#30

Cyclohexane

Concen: 0.167 ppbv m

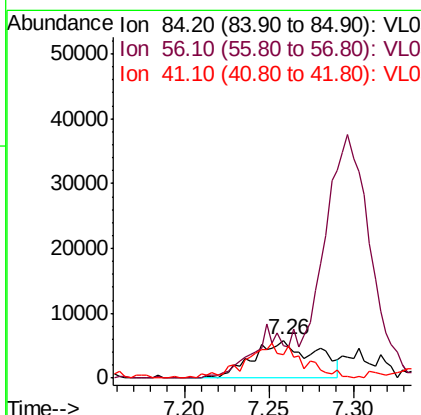
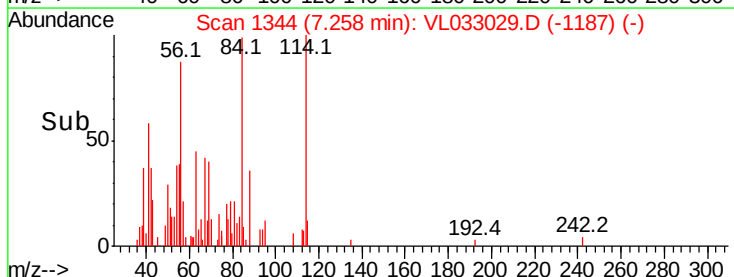
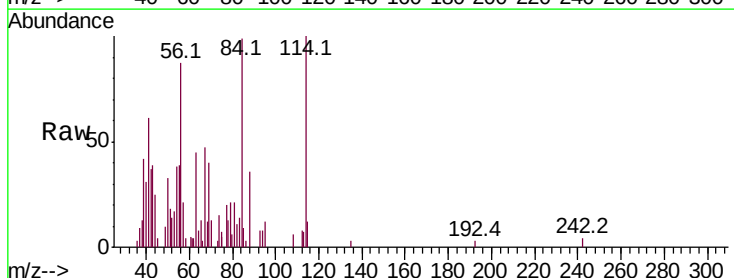
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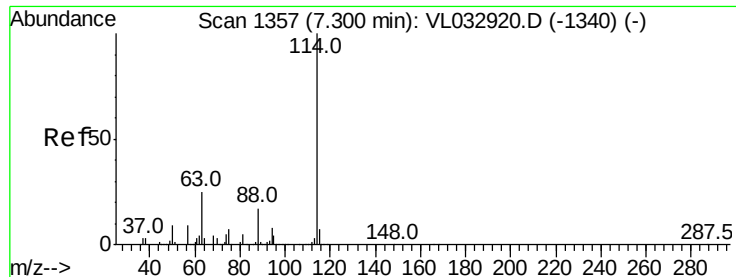
Delta R.T. 0.00 min

Lab File: VL033029.D

Acq: 20 Dec 2018 17:25

Tgt Ion:	84	Resp:	14927
Ion Ratio	Lower	Upper	
84	100		
56	0.0	102.5	153.7#
41	81.4	64.1	96.1





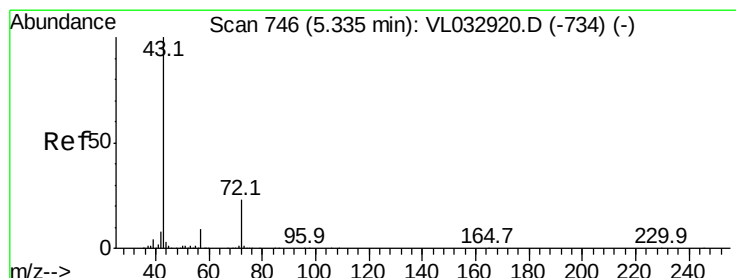
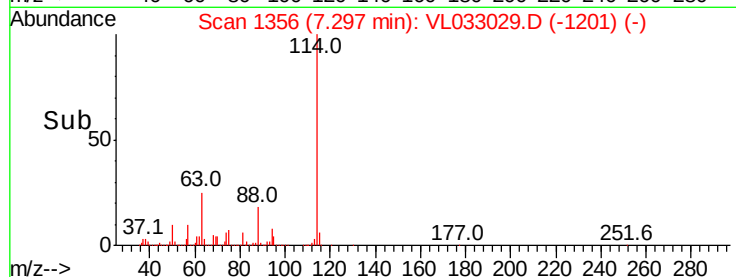
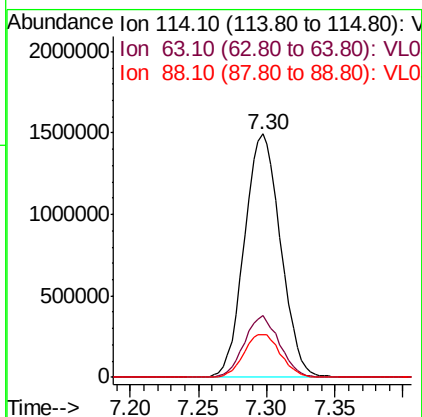
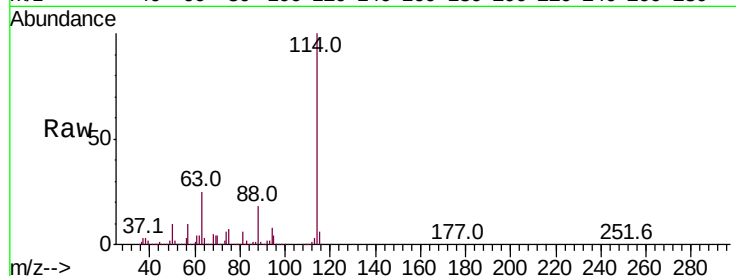
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.00 min
 Lab File: VL033029.D
 Acq: 20 Dec 2018 17:25

Instrument :
 MSVOA_L
 ClientSampleId :
 YT-CBA-LTM5-04

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.8	20.1	30.1
88	17.9	14.2	21.4

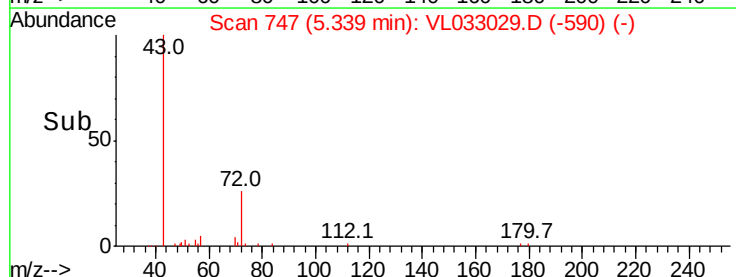
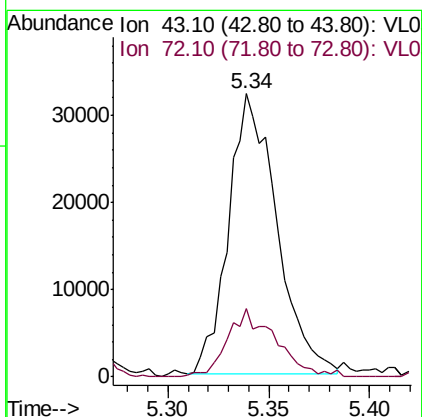
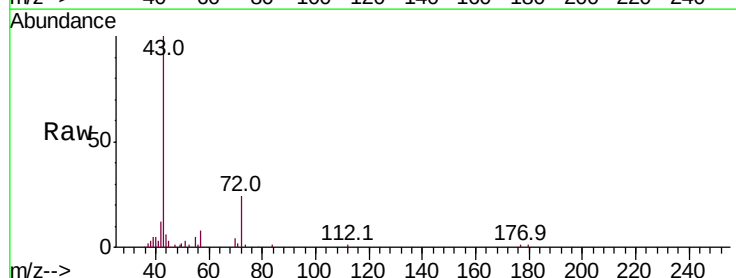
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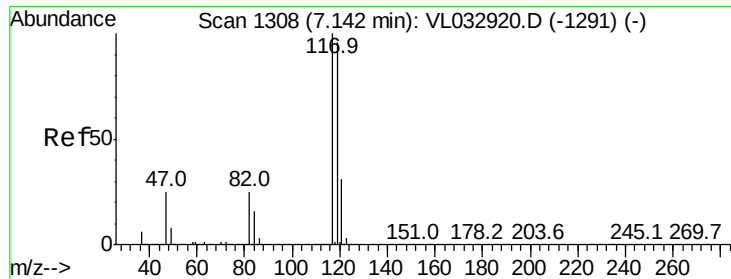
MMDadoda
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#34
 2-Butanone
 Concen: 0.448 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. 0.00 min
 Lab File: VL033029.D
 Acq: 20 Dec 2018 17:25

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.3	18.8	28.2





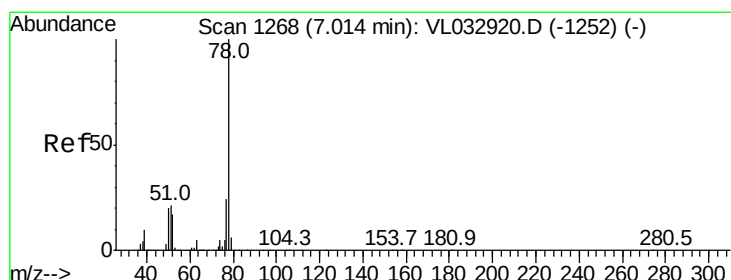
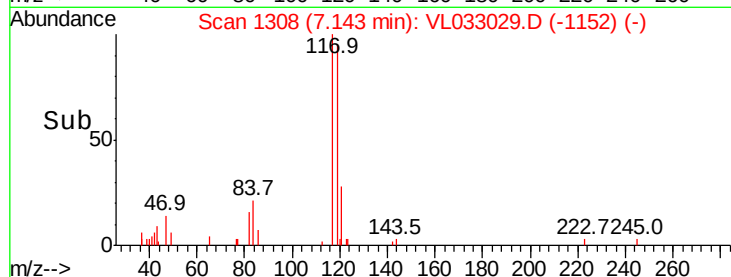
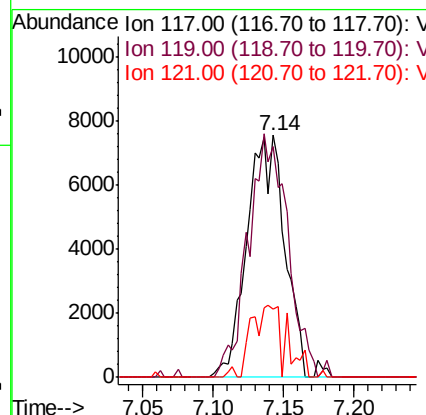
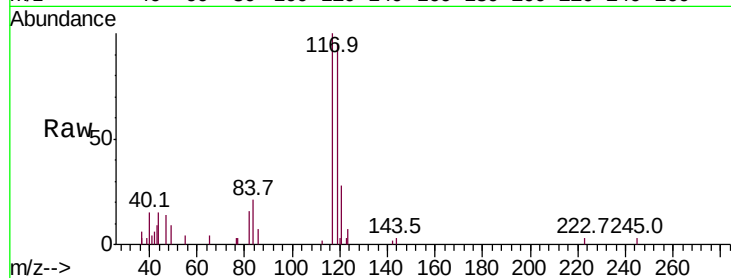
#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 7.14 min Scan# 1308
Delta R.T. 0.00 min
Lab File: VL033029.D
Acq: 20 Dec 2018 17:25

Instrument :
MSVOA_L
ClientSampleId :
YT-CBA-LTM5-04

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.3	76.5	114.7
121	28.0	24.5	36.7

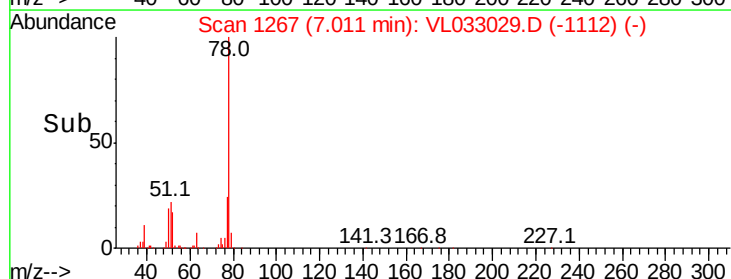
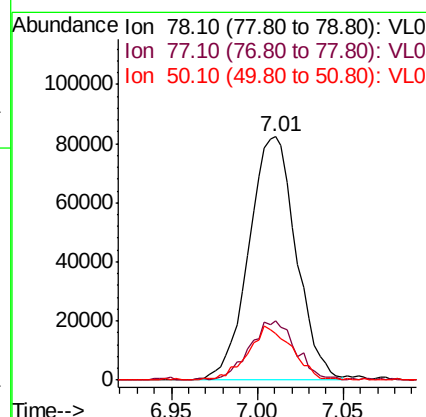
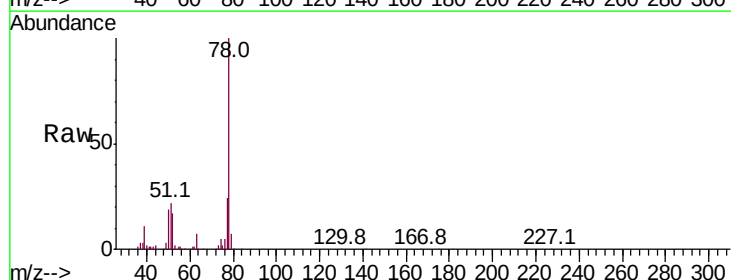
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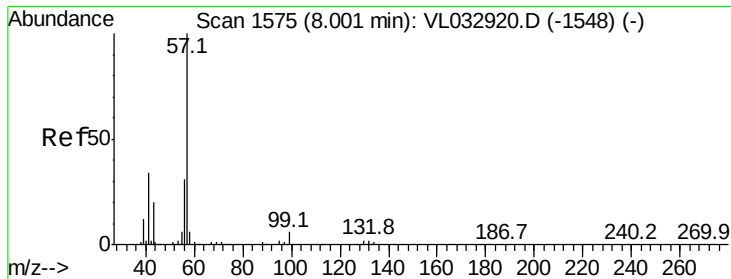
MMDadoda
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#36
Benzene
Concen: 0.774 ppbv
RT: 7.01 min Scan# 1267
Delta R.T. -0.00 min
Lab File: VL033029.D
Acq: 20 Dec 2018 17:25

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.9	28.3
50	19.3	16.1	24.1





#44

2,2,4-Trimethylpentane

Concen: 0.330 ppbv

RT: 7.99 min Scan# 1572

Delta R.T. -0.01 min

Lab File: VL033029.D

Acq: 20 Dec 2018 17:25

Instrument :

MSVOA_L

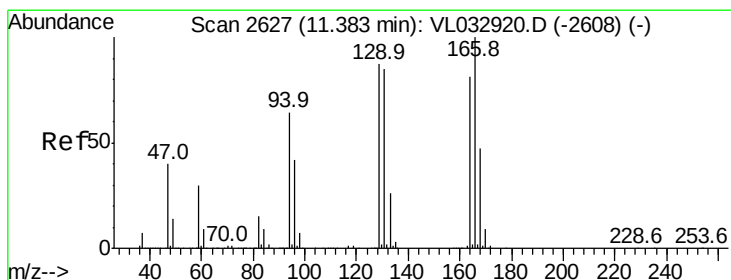
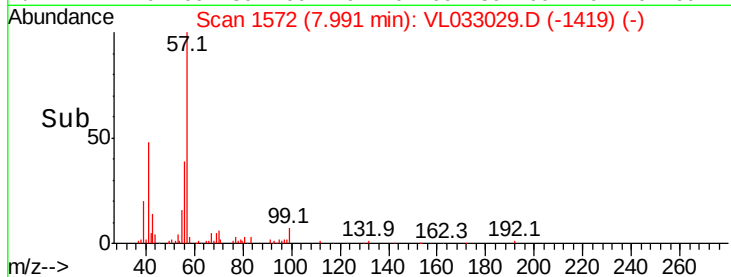
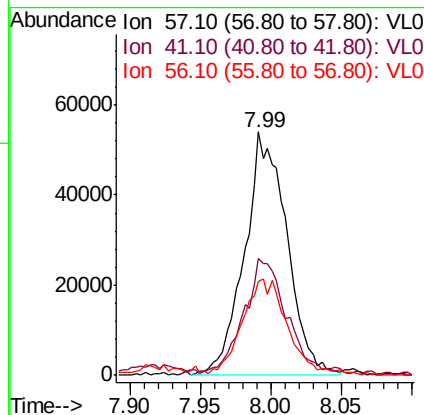
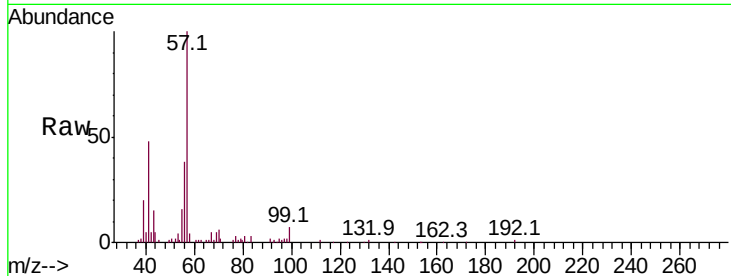
ClientSampleId :

YT-CBA-LTM5-04

Tot Ion	57	Resp	11384
Ion Ratio	Lower	Upper	
57	100		
41	50.2	27.0	40.4#
56	43.8	24.6	37.0#

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#52

Tetrachloroethene

Concen: 0.186 ppbv m

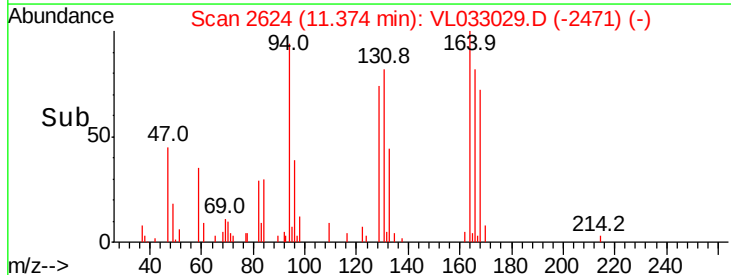
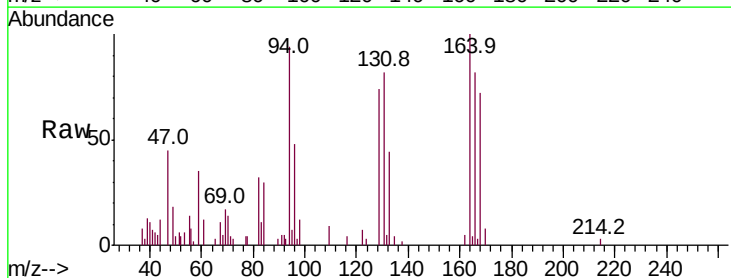
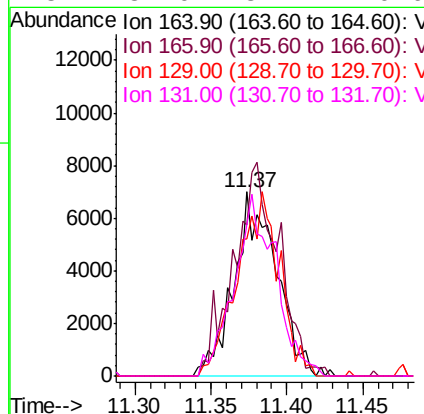
RT: 11.37 min Scan# 2624

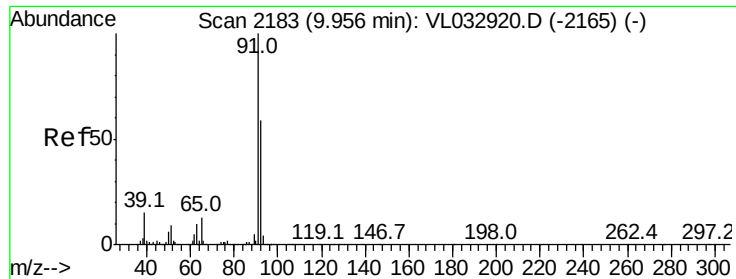
Delta R.T. -0.01 min

Lab File: VL033029.D

Acq: 20 Dec 2018 17:25

Tgt Ion	164	Resp	13688
Ion Ratio	Lower	Upper	
164	100		
166	81.8	98.8	148.2#
129	74.4	85.5	128.3#
131	82.0	84.4	126.6#





#53

Toluene

Concen: 92.530 ppbv

RT: 9.96 min Scan# 2184

Delta R.T. 0.00 min

Lab File: VL033029.D

Acq: 20 Dec 2018 17:25

Instrument :

MSVOA_L

ClientSampleId :

YT-CBA-LTM5-04

Tot Ion: 91 Resp: 19867460

Ion Ratio Lower Upper

91 100

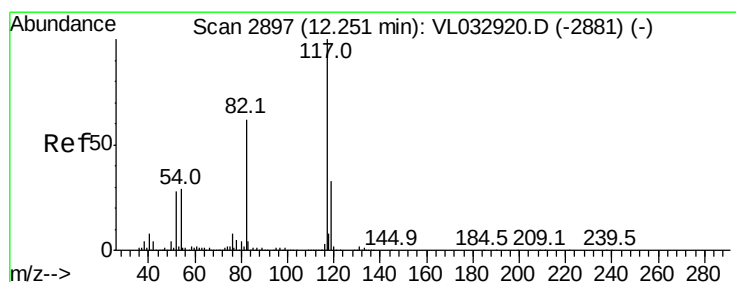
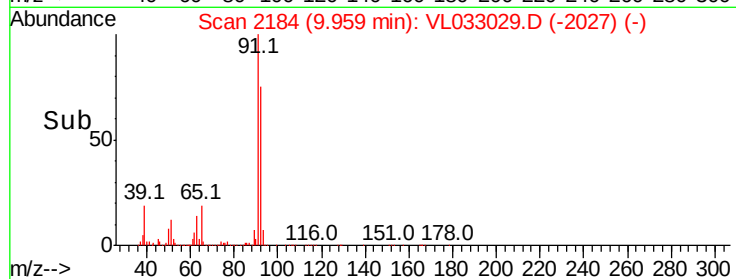
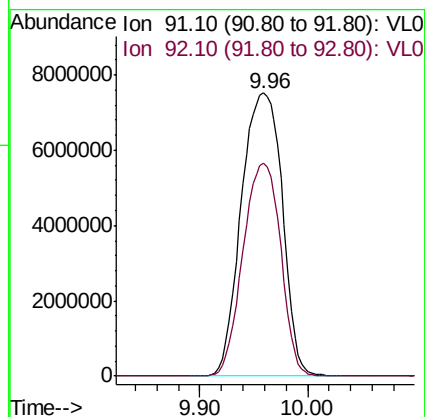
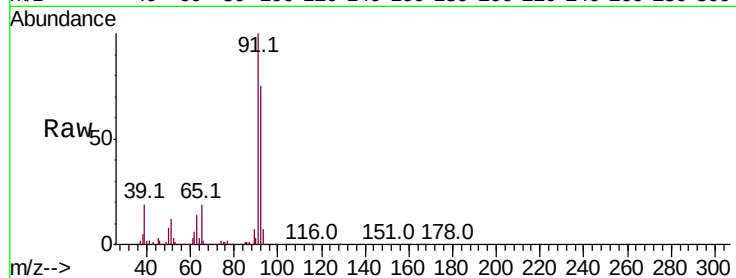
92 69.4 47.4 71.0

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL033029.D

Acq: 20 Dec 2018 17:25

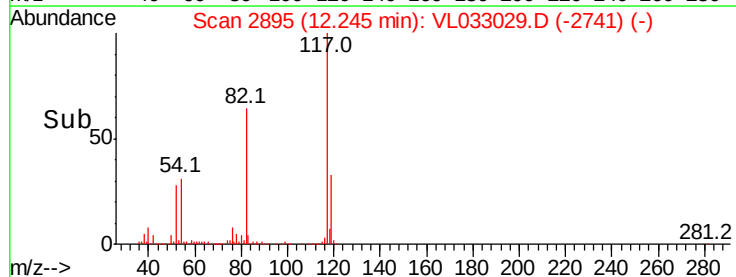
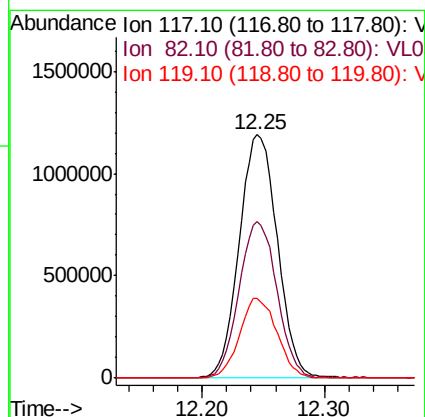
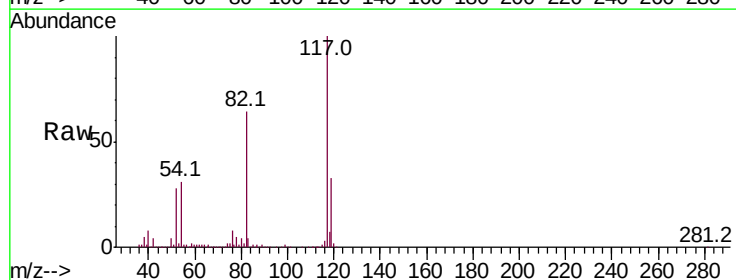
Tgt Ion: 117 Resp: 2567843

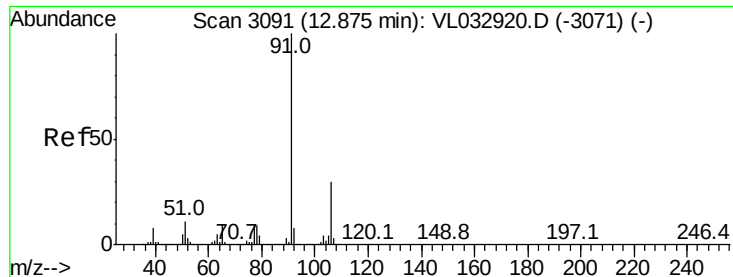
Ion Ratio Lower Upper

117 100

82 64.4 47.8 71.8

119 32.5 43.1 64.7#





#58

Ethyl Benzene

Concen: 0.236 ppbv m

RT: 12.87 min Scan# 3089

Delta R.T. -0.01 min

Lab File: VL033029.D

Acq: 20 Dec 2018 17:25

Instrument :

MSVOA_L

ClientSampleId :

YT-CBA-LTM5-04

Tot Ion: 91 Resp: 64677

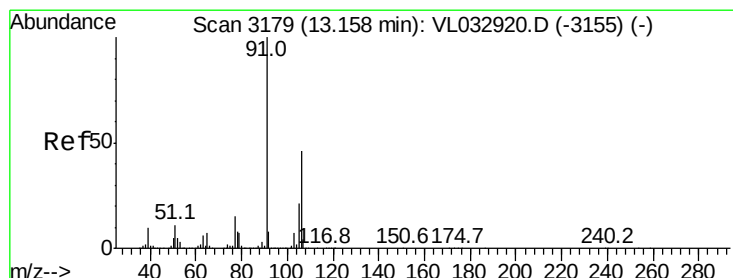
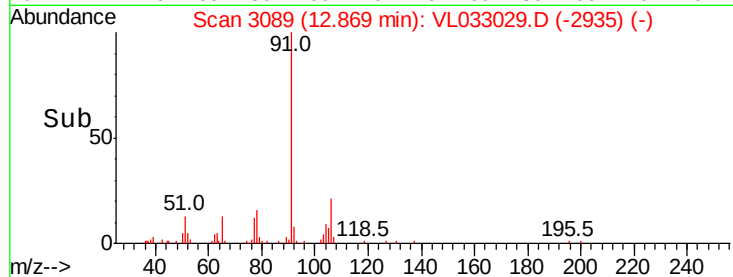
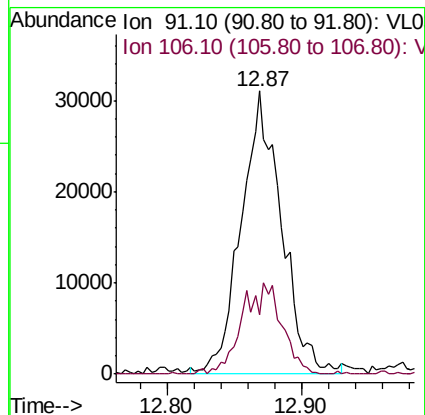
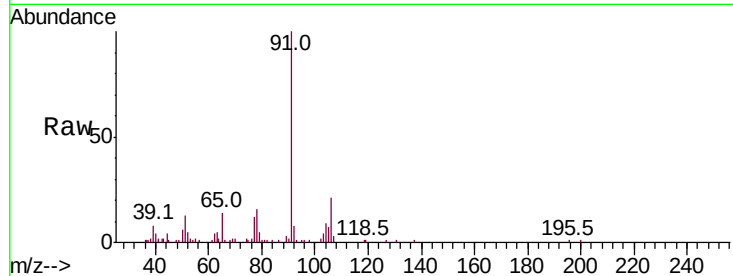
Ion Ratio Lower Upper

91 100

106 20.8 23.9 35.9#

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#59

m/p-Xylene

Concen: 0.847 ppbv m

RT: 13.13 min Scan# 3171

Delta R.T. -0.03 min

Lab File: VL033029.D

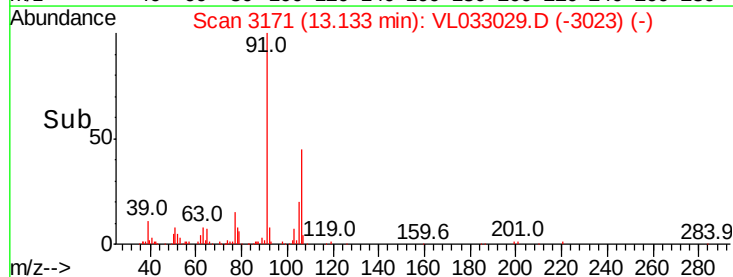
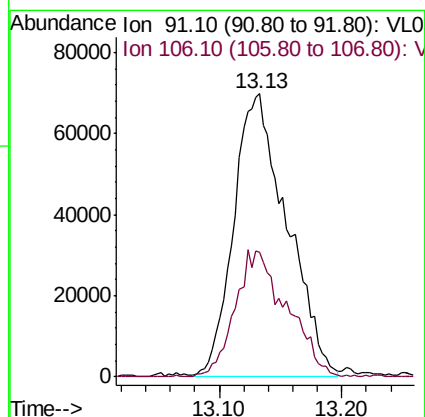
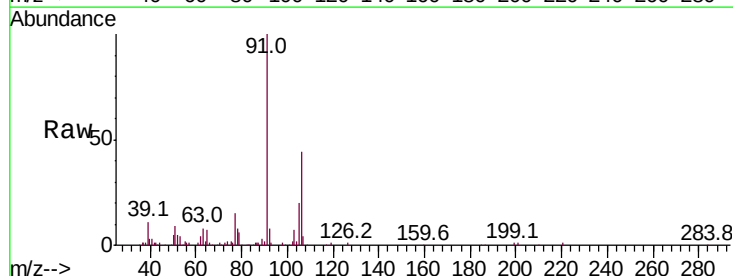
Acq: 20 Dec 2018 17:25

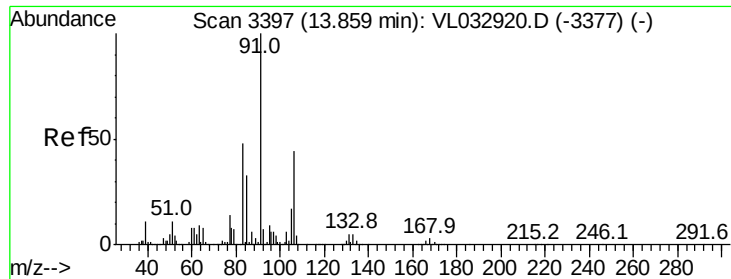
Tgt Ion: 91 Resp: 210290

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0





#60

o-Xylene

Concen: 0.271 ppbv m

RT: 13.86 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VL033029.D

Acq: 20 Dec 2018 17:25

Instrument :

MSVOA_L

ClientSampleId :

YT-CBA-LTM5-04

Tot Ion: 91 Resp: 67929

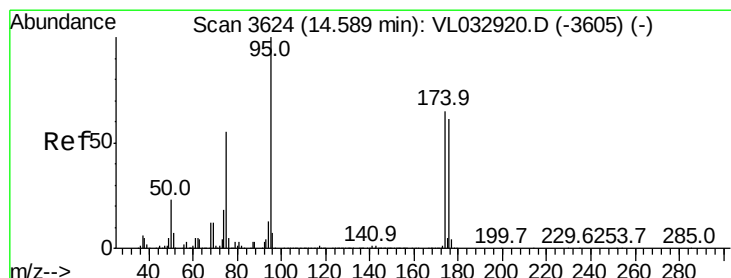
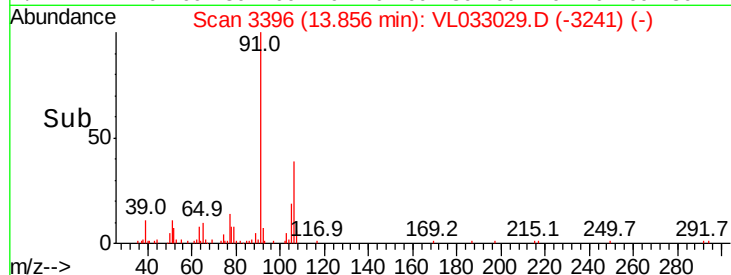
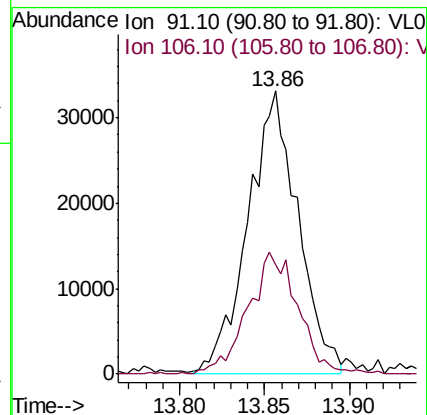
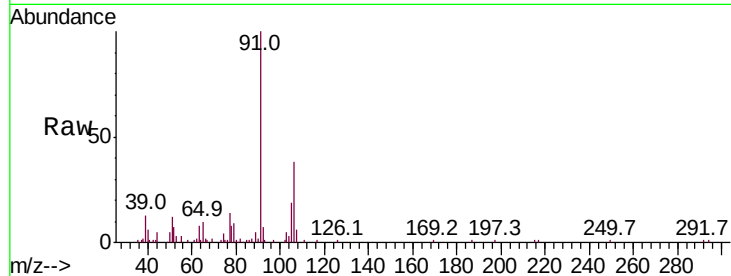
Ion Ratio Lower Upper

91 100

106 43.3 21.9 65.8

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.791 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL033029.D

Acq: 20 Dec 2018 17:25

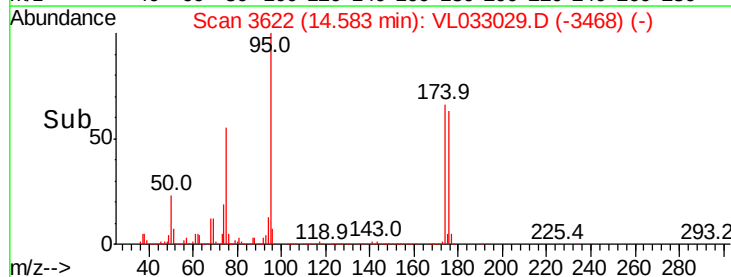
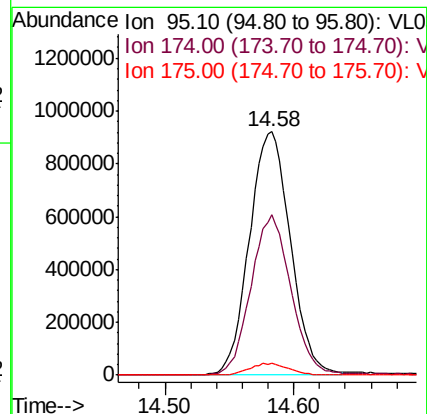
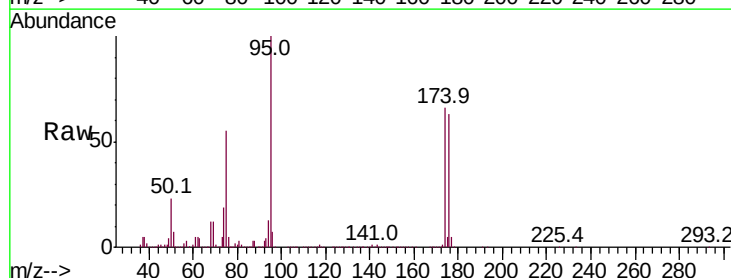
Tgt Ion: 95 Resp: 2047123

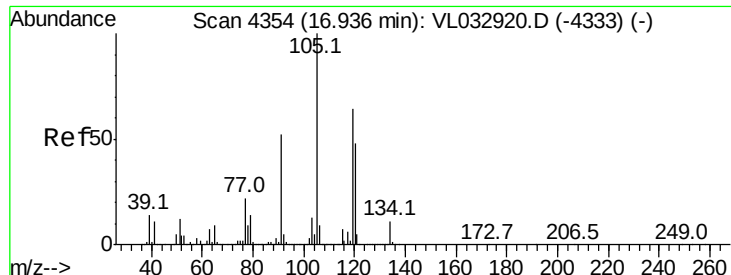
Ion Ratio Lower Upper

95 100

174 65.4 51.4 77.0

175 4.8 3.8 5.6





#74

1,2,4-Trimethylbenzene

Concen: 0.335 ppbv m

RT: 16.93 min Scan# 4353

Delta R.T. -0.00 min

Lab File: VL033029.D

Acq: 20 Dec 2018 17:25

Instrument :

MSVOA_L

ClientSampleId :

YT-CBA-LTM5-04

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	47.5	38.6	58.0
91	17.2	41.7	62.5#
77	15.6	17.4	26.2#

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